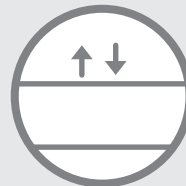




**MACHINES AND PLANTS
FOR THE BEVERAGE INDUSTRIES:
CLOSING, PACKING, PASTEURIZATION**



Product catalogue



GOOD REASONS FOR ...



PROJECT PLANNING · DEVELOPMENT & CONSTRUCTION · MANUFACTURE · AFTER SALES



- + More than **50 years** of experience in the **beverage industry**
- + Construction in accordance with the latest hygiene guidelines
- + Mercedes of **swing tops, solidity in multi-shift production**
- + One of the leading manufacturers of **pasteurisation chambers**
- + Strong in **special solutions with a high degree of automation**
- + **Service and remote maintenance**
- + **Synergy effects** [assembly, construction, software, start-up] through integration into the Pütz Group



- + Established in 1988, approximately 90 employees
- + Many years of industrial experience
- + Central capital base / local flexibility with the greatest degree of freedom and responsibility

RICO GmbH
Ferdinand-Porsche-Straße 5
73479 Ellwangen
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Phone: +49 7961 56499-0
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www.rico-maschinenbau.de

Swing stopper closing machines

For all performance areas – from 1,000 up to 32,000 bottles per hour.



Hygienic Design*

Best microbiological values
and perfect hygiene

* Developed with research center Weihenstephan
for brewing and food quality

Swing stopper closing machines

RICO swing stopper closing machines are characterized by the latest hygiene technology and optimized design.

A biological table ensures maximum hygiene and cleanliness. The machine table is reduced to the smallest possible surface area. Smooth surfaces on all sides, including beveled edges, ensure immediate drainage of water and prevent the formation of puddles. The average roughness value is just 0.8 µm.



For all performance areas:

BVH 1

1,000 bottles/h



BVH 3.5

3,500 bottles/h



BVH 7

7,000 bottles/h



BVH 18

18,000 bottles/h



BVH 20

20,000 bottles/h



BVH 32

32,000 bottles/h



Swing stopper closing machines



Height adjustment feature as standard

Optional:

- Rinse and splash system
- Foam cleaning system
- Dynamic high-pressure injection system (HDE)
- Telemaintenance
- Capture of production data with interface
- Vision technology for controlling swing stoppers, rubber seals, logotypes, etc.
- Motorized height adjustment

Your benefits:

- + **Mechanical test of the pressure closing system**
with automatic discharge of incorrectly closed bottles
- + **Integrated flip-top test**
- + **Closing ratio of new and returnable bottles > 98%**
= highest closure rate on the market
- + **Integrated height adjustment**
for processing different bottle heights
- + **Hygienic Design**
(developed with research center Weihenstephan for brewing and food quality) for best microbiological values and perfect hygiene
- + **Swing stopper saving mode of operation**
- + **Predominantly in stainless steel design**
- + **High-quality engines and control components of well-known manufacturers**
- + **Modern, maintenance-free gearbox and drive system**
- + **SPC-control system**
(Siemens Simatic S7)
- + **Hardly any wearing parts**
- + **Low energy consumption**

Your specialist for swing stopper closing machines offers more:

Swing stopper installation machine

6,000 bottles/h



Swing stopper opener

up to 12,000 bottles/h



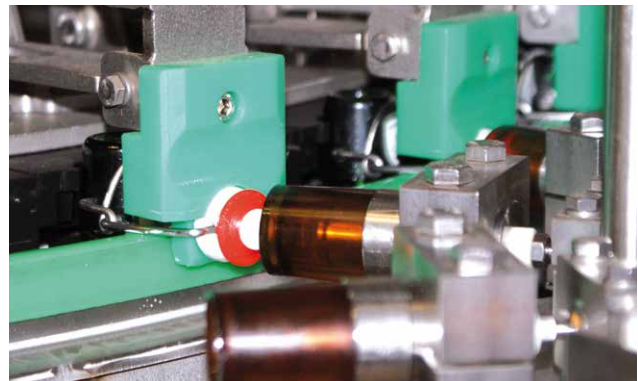
Swing stopper inspection machine

34,000 bottles/h



Rubber seal changer

10,000 bottles/h



Everything from a single source

Take advantage of the **synergy effects** that result from our integration into the **Pütz Group!**

In addition to machines and plants for the beverage industry, we are able to equip your plant with the most modern control and vision technology.

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SWING STOPPER OPENER

Robust construction – high opening rate



**UP TO
12 000
BOTTLES
PER HOUR**

Optional:

- + Rinsing and flushing device (foam cleaning on request)
- + Remote maintenance
- + Operating data collection



Low-maintenance gear drive

Your benefits:

- + **Low energy consumption**
- + **Impervious to leaking liquids and dirt**
- + **Good accessibility for cleaning**
- + **Easy alignment and opening of the swing stopper without alignment errors**
all on the star wheel
- + **Tried and tested press-on station**
- adjustable pressure
- cam-controlled slide
- + **Easily convertible**
to different bottle sizes
- + **Stainless, low-maintenance gear drive**
- + **Low wear**
as no belt, aligner, opener and clamp star are necessary
- + **Low energy consumption**

SWING STOPPER OPENER



Technical details:

- Up to 12 000 bottles/h
- Suitable for porcelain and plastic bobbins
- Stainless steel design
- PLC control system
- High-quality motors and control components from renowned manufacturers
- Modern, maintenance-free transmission and drive system



The alignment station lowers onto the closed swing stopper, the alignment flap engages and turns the bottle to the opening position.



The press-on station opens the swing stopper. The pressure is adjustable, and the sliders are cam-controlled.



Lifting the swing stopper
Escaping liquids or dirt cannot harm the bottle plate located under the bottle.

EVERYTHING FROM A SINGLE SOURCE

Thanks to our integration into the **PÜTZ GROUP** and the resulting **synergy effects** we are able to offer you not just machines and equipment for the beverage industry, but also the appropriate testing technology.

FOR OVER 50 YEARS
we have been successfully producing complex, customer-specific individual machines and complete systems for the beverage industry.

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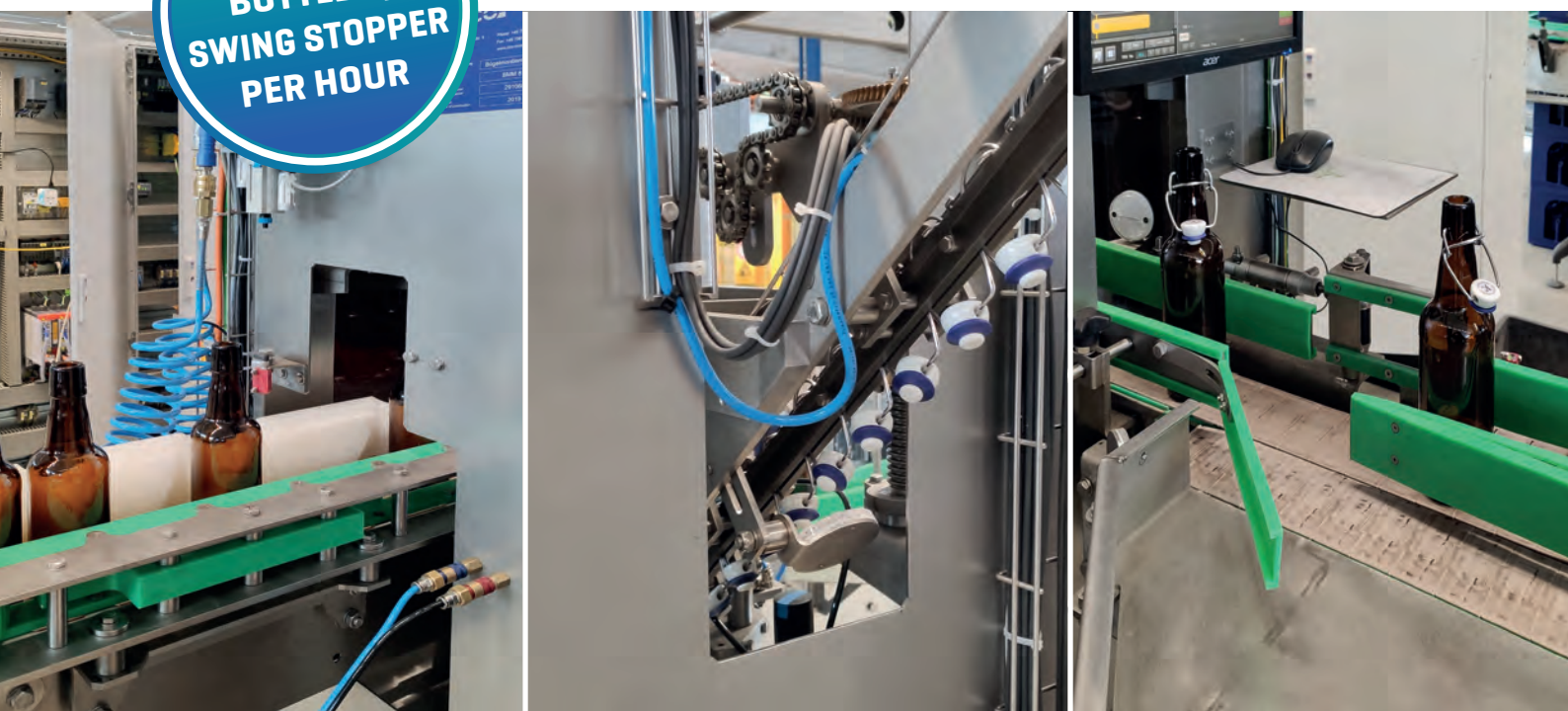
FULLY AUTOMATIC SWING STOPPER INSTALLATION MACHINE

Fast and accurate swing stopper installation

The fully automatic RICO swing stopper installation machine makes the swing stopper installation highly efficient and cost effective: It impresses with a very high throughput and minimal error rates. The correct installation is monitored by a camera; defective bottles are automatically discharged to a downstream workstation.



**6 000
BOTTLES /
SWING STOPPER
PER HOUR**



Your benefits:

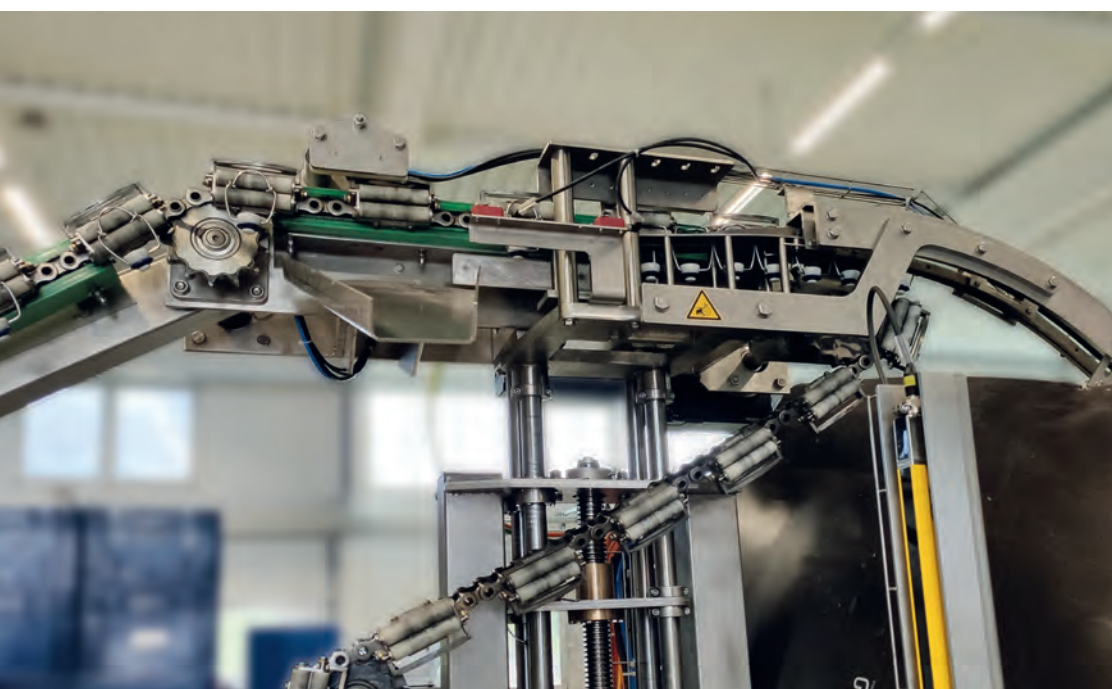
- + Highly efficient**
short payback period thanks to a high assembly performance of 6 000 swing stoppers / h
- + Automatic transfer**
of the swing stoppers from the swing stopper production machine to the swing stopper installation machine of feeding as bulk material
- + Automatic alignment**
of the swing stopper installation using the bottle crest
- + Camera monitoring**
for monitoring the correct swing stopper installation
- + Consistent installation performance and installation quality**
- + Low setup costs**
thanks to automatic format changes
- + Low follow-up costs**
new formats are easily and simply retrofitted

FULLY AUTOMATIC SWING STOPPER INSTALLATION MACHINE

**WORLD
MARKET
LEADER**

Technical details:

- 6 000 bottles/swing stoppers/h
- Bottle diameter: 50 mm – 90 mm
- Bottle height: 180 mm – 330 mm
- Feeding of the swing stoppers: bulk material or direct connection with the production machine



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SWING STOPPER INSPECTION MACHINE

New hygiene technology and improved design

Optimum hygiene guarantee!

All the components were revised in accordance with the latest hygiene guidelines.



Tests:

Toggle test

- Toggle breakage
- Logo test
(Presence,
Recognition of foreign logo,
Recognition of bleached logo)

Seal rubber test

- Availability
- Quality (Colour, Contamination,
Mould detection,
Damages)

Empty Bottle Inspection

- Bottom Inspection
- Bottle Mouth Inspection
- Side Wall Inspection
- Residual Liquid Inspection
- Caustic Control
- Bottle too high/too short
- Diameter Detection
- Bottle Colour

Bracket test

- Detection of faulty bracket mounting
- Detection of bending bracket
- Bracket symmetry test

Your benefits:

- + **Construction kit principle:**
simple to assemble
and dismantle
- + **Fewer parts, less area**
- + **CIP-capable**

- + **Simple cleaning:**
machine can be completely
covered in foam and is open
for detergents
- + **High-strength plastic parts**
with approval for use
with foodstuffs

- + **Maintenance-free,
energy-saving drive**
- + **Simple and fast repair**

SWING STOPPER INSPECTION MACHINE



Technical details:

- Up to 34 000 bottles/h
- Predominantly in stainless steel design
- Integrated height adjustment for processing different bottle height
- Gentle work process for bracket
- Designed according to latest hygienic findings and therefore excellent biological values
- High-quality engines and control components of well-known manufacturers
- Modern and maintenance-free drive systems

Optional:

- + Feed-out system
- + Operating data entry
- + Remote control
- + Integration in available filling line

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RUBBER SEAL CHANGER GW 10

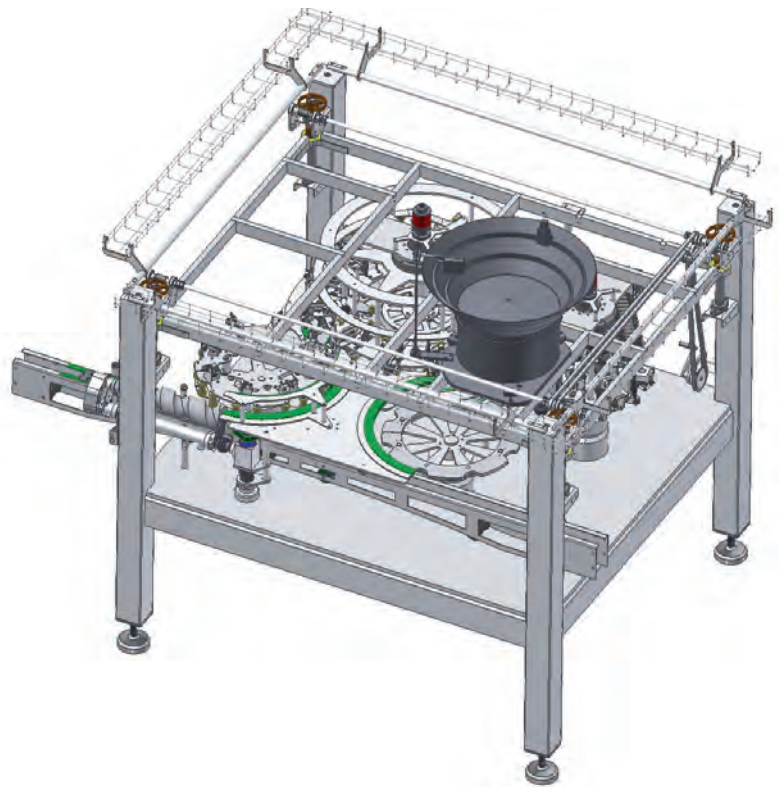
Optimum swing stopper hygiene. Maximum protection against complaints.

The removal of old rubber seals as well as the simultaneous cleaning of porcelain or plastic toggles is no longer performed mechanically but with high pressure water.

The result: Contaminants are no longer spread across the toggles; there is no mechanical wear on the separation unit, no damage or wear caused by glued toggles.



10 000
BOTTLES
PER
HOUR



Your benefits:

- + **Optimum swing stopper hygiene** and therefore maximum **protection against complaints**
- + **Compatible with our proven rubber seal inspector** detects soiled rubber seals
- + **Process-secure rubber seal placement** thanks to a new rubber seal installation unit with integrated expansion mechanism
- + **Very high rubber seal replacement rate**
- + **Convertible to different bottle formats** via a height adjustment feature
- + **Designed in line with the latest hygiene guidelines**
- + **Low maintenance costs** thanks to the wear-resistant drive concept and rubber seal removal unit

RUBBER SEAL CHANGER GW 10

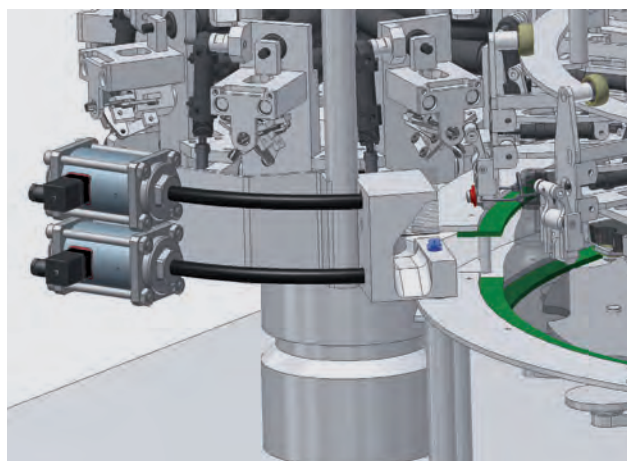


Technical details:

- 10 000 bottles / h
- Sorting head with fill-level monitoring for the rubber seals
- PLC control system
- Modern, maintenance-free transmission and drive system
- Camera technology for testing:
The removal of old rubber seals, installation of new rubber seals, toggle soiling
- Remote maintenance module via the customer's network

Optional:

- + Rejection system for the safe rejection of empty bottles while upright
- + Filling device for the sorting head
- + Production data capture



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DYNAMIC HIGH-PRESSURE INJECTION (HPI)

Infinitely adjustable interpolation of the pressure using the bottle speed



SIEMENS SIMATIC HMI

PUTZ GROUP RICO

Programme

Abmelden

Programmanwahl

F9 + Druck ●

F10 - Druck ●

Prg Nr: 9 Krombacher 0,33 ltr.

Flaschen Typ

Flaschen Größe Stellgröße

Bitte Flasche wählen Bitte auf folgenden Wert einstellen: 0

Programmübergabe

Prg Nr: 9 Krombacher 0,33 ltr.

Daten übernehmen

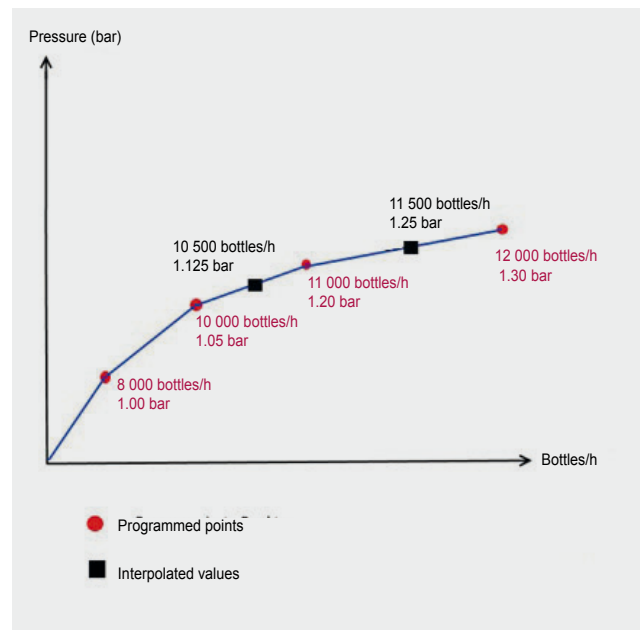
HDE_Programm		Offset HDE: 0,4 [bar]		Leistung: 10166 Fl/h		Solidruck HDE: 1,5 [bar]	
Flaschen/h	Druck HDE in bar	Flaschen/h	Druck HDE in bar	Flaschen/h	Druck HDE in bar	Flaschen/h	Druck HDE in bar
8000	Punkt 1 1,00	19000	Punkt 11 1,80				
10000	Punkt 2 1,05	20000	Punkt 12 1,90				
11000	Punkt 3 1,20	21000	Punkt 13 1,90				
12000	Punkt 4 1,30	22000	Punkt 14 2,10				
13000	Punkt 5 1,40	23500	Punkt 15 2,35				
14000	Punkt 6 1,60	25000	Punkt 16 2,50				
15000	Punkt 7 1,70	26500	Punkt 17 2,80				
16000	Punkt 8 1,70	28000	Punkt 18 3,10				
17000	Punkt 9 1,70	29500	Punkt 19 3,40				
18000	Punkt 10 1,80	31000	Punkt 20 3,80				

Home Hand **Programm** Parameter Daten System Meldung Reinigung

NEW DEVELOPMENT

Programmable interpolation of the set HPI pressure depending on bottle speed (bottles/h).

The programmed values are entered into a value table. If the bottle speed changes then the pressure adjusts automatically to the correct value.



DYNAMIC HIGH-PRESSURE INJECTION (HPI)



Technical details:

- The water temperature is 84°C when it leaves the pipe
- Projected pressure calculation so that the bottles always bubble up equally, even on fast ramp travel
- Our HPI still maintains the set pressure, even with fluctuations on the in-house grid
- The water consumption lies between 4 and 8 litres per hour, depending on the pressure that is used
- All areas of HPI that come into contact with water are made of high quality stainless steel and are designed and selected in accordance with the most recent hygiene findings
- Our HPI is an open system, not closed

HPI on the rejection table

- + The temperature at output from the hose is 84°C
- + The pressure can be set on the pressure regulator – between 1 bar and 4 bar
- + Our manual workplace keeps the set pressure even if there are fluctuations in the in-house grid



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Unpacking and packing machines

RICO systems and machines are designed to be space-saving, low-maintenance and durable.



Vari

Absolutely variable.
For all bottles, crates
and cartons.

Robo

Flexible to use,
clearly and simply
structured,
highly dynamic.

Robot-guided solutions

Economical
palletizing and
depalletizing / un-
packing and packing.

Bottle grippers and packing heads

For all bottles
and every
performance area.



Maximum hygiene guaranteed:

RICO unpacking and packing machines are predominantly made of stainless steel and designed according to the latest hygienic standards.

Unpacking and packing machines

Vari

Max. 450 cycles/h
22,000 bottles/h



Vari – the name speaks for itself: absolutely variable, for all bottles, crates and cartons.

Robo

Max. 600 cycles/h
Up to 200 kg top load
48,000 bottles/h



Robo can be used flexibly, has a clear and simple structure and is highly dynamic. It is also suitable for PET bottles.

Optional:

- Packing head quick-changer
- Packing head magazine
- Universal packing head and motorical lane adjustment for automatic format adjustment

Your benefits:

- + Quiet running and almost maintenance-free, even with high throughput
- + SPC-control system
- + Clear operation and text display
- + Positioning control ensures optimal flow of movement
- + Fast and simple format adjustment by the operator
- + Gripper heads are equipped with RICO LZT long-term bottle grippers
- + Low consumption
- + Designed according to latest hygienic findings

Unpacking and packing machines

Robot-guided solutions

Palletizing and depalletizing
Unpacking and packing

Our **individual, robot-guided solutions** make palletizing and depalletizing as well as unpacking and packing even more economical.



A For packing of bottles

B For gripping the inside of the box

Your benefits:

- + Processes reusable crates (wine/fruit juices)
- + Palletizing and depalletizing of crates and unpacking of bottles
- + Packing of bottles and gripping of crates without gripper change
- + Sensors for determining the position
- + Larger capacity than conventional grippers processes 4 crates lengthwise or 6 crates crosswise, further processing capacities on request
- + Space-saving, precise placement of the crates
- + No knocking over of other crates because the gripper grips the inside of the crate

Unpacking and packing machines

Bottle grippers and packing heads

for all bottles and every performance area

3 x longer
service life
than conventional
bottle grippers



Your benefits:

- + Very durable**
 - robust plastic turned part (not an injection-moulded part)
 - equipped with RICO LZT long-term bottle grippers or flip-top bottle grippers
- + Flexible**
 - for all glass bottles from 46 mm in diameter, PET bottles, flip-top bottles
 - suitable for all areas of use
- + Efficient**
 - easy replacement of wearing parts
 - quick and easy format adjustment
- + Conserving resources**
 - 50% less compressed air consumption than conventional bottle grippers
- + Customised**
 - customer-specific and machine-specific design

Everything from a single source

Take advantage of the **synergy effects** that result from our integration into the **Pütz Group!**

In addition to machines and plants for the beverage industry, we are able to equip your plant with the most modern control and vision technology.

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Bottle grippers / Packing machines / Manual packing heads / Packing and gripper heads



Bottle grippers

for all glass bottles
from 46 mm
in diameter,
for all PET bottles
and flip-top bottles

Packing machines

for unpacking and
packing

Manual packing heads

for the manual
processing of smaller
bottle quantities or
special bottle types

Packing and gripper heads

for unpacking and
packing machines



Bottle grippers / Packing machines / Manual packing heads / Packing and gripper heads

Packing machines

for unpacking and packing

We offer you packing machines for all performance areas.

Vari – the name speaks for itself: absolutely variable – for all bottles, crates and cartons – with fast and simple format adjustment.

Robo has a simple design and can still be used flexibly. Movable in all directions. Also suitable for PET bottles.

Our **individual, robot-guided solutions** make palletizing and depalletizing as well as unpacking and packing even more economical.

Vari

22,000 bottles/h



Robo

48,000 bottles/h



Robot-guided solutions

for economical packing and gripping



Bottle grippers / Packing machines / Manual packing heads / Packing and gripper heads

Manual packing heads

for the manual processing of smaller bottle quantities or special bottle types

Have you had to go to the trouble of manually packing small quantities or special bottle types up to now? Or do you simply not have the money to invest in expensive machines? With its manual packing heads, RICO offers an inexpensive solution for automating the packing process.



20-piece manual packing head for 0.5 l Euro bottles



Special manual packing head to move two six pack packages into pin-partitioned crates



6-piece manual packing head for 0.7 l VdF bottles

Your benefits:

- + **Individually**
produced according to customer's specifications
- + **Very durable**
due to equipment with our high-quality RICO LZT long-term bottle grippers
- + **Simple operation**
by hand valve or balancer

Optional:

- Conveyer belt for bottles or crates

Bottle grippers / Packing machines / Manual packing heads / Packing and gripper heads

Packing and gripper heads

for unpacking and packing machines



Your benefits:

+ Universal & flexible

for all bottle types, all capacity ranges and all areas of use.

- all glass bottles from 46 mm in diameter
- all PET and flip-top bottles

+ Durable

robust plastic turned part (not an injection-moulded part), all gripper heads are equipped with RICO LZT long-term bottle grippers or flip-top bottle grippers (3x longer service life than conventional grippers)

+ Efficient

- easy replacement of wearing parts
- quick and easy format adjustment

+ Trouble-free integration
in all packer types

+ Customised

customer-specific and machine-specific design

+ Conserving resources

50% less compressed air consumption than conventional bottle grippers

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HIGH PERFORMANCE COMBI MODULE MACHINE



Optional:

- + Universal packing head and motorical lane adjustment for automatic format adjustment
- + Packing head quick-changer
- + Packing head magazine
- + Combinations with our series and layer palletizing systems
- + Transport systems



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PACKAGING AND PALLETIZING CARTONS AND CRATES

Packaging solutions for the entire process chain



Palletizing robot with vacuum suction grippers

We plan in accordance with the requests and requirements of our customers as well as local conditions – in the smallest spaces if necessary!



Carton closer



Carton erector

Your benefits:

- + We offer both **series and layer palletizing systems**
- + **Space-saving, low-maintenance and long lasting designs**
- + **Fast format adjustment and low consumption values**
- + All machines **can be combined** with our crating machines, carton erectors and carton closers

HIGH PERFORMANCE COMBI MODULE MACHINE

Erection, packing, closing and gluing packaging solutions for the entire process chain

We plan in accordance with the requests and requirements of our customers as well as local conditions – in the smallest spaces if necessary!



Your benefits:

- + The combi module machine can:
 - **erect** cartons
 - **pack** cartons
 - **close** cartons
 - **glue** cartons
- + Designed **according to latest hygienic and energetic findings**
- + **Most modern robot kinematics** with high performance servomotors
- + **Fast and simple format adjustment** because there is no forced guided mechanism
- + **Space-saving, low-maintenance and long-lasting designs**
- + **User-friendly indicator and control unit**
- + **Max. 1 000 cartons/hour**
- + **Stainless steel design**

HIGH PERFORMANCE COMBI MODULE MACHINE

Erection, packing, closing and gluing packaging solutions for the entire process chain

We plan in accordance with the requests and requirements of our customers as well as local conditions – in the smallest spaces if necessary!



Your benefits:

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- + **Fast and simple format adjustment** because there is no forced guided mechanism
- + **Space-saving, low-maintenance and long-lasting designs**
- + **User-friendly indicator and control unit**
- + **Max. 1 000 cartons/hour**
- + **Stainless steel design**

HIGH PERFORMANCE COMBI MODULE MACHINE



Optional:

- + Universal packing head and motorical lane adjustment for automatic format adjustment
- + Packing head quick-changer
- + Packing head magazine
- + Combinations with our series and layer palletizing systems
- + Transport systems



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PACKAGING AND PALLETIZING CARTONS AND CRATES



Optional:



Empty pallet magazine in different designs



Transport systems



Pallet storing positions

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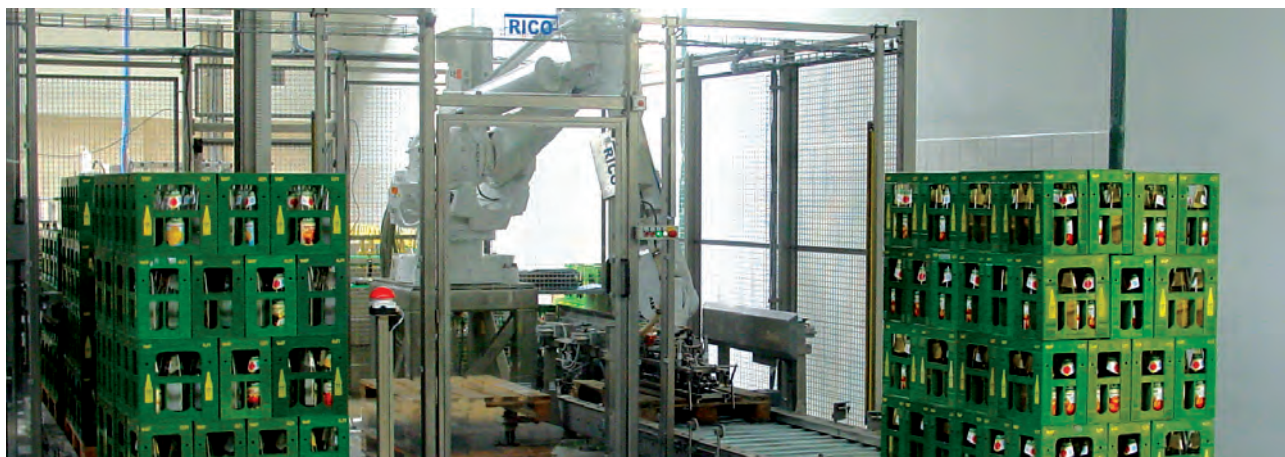
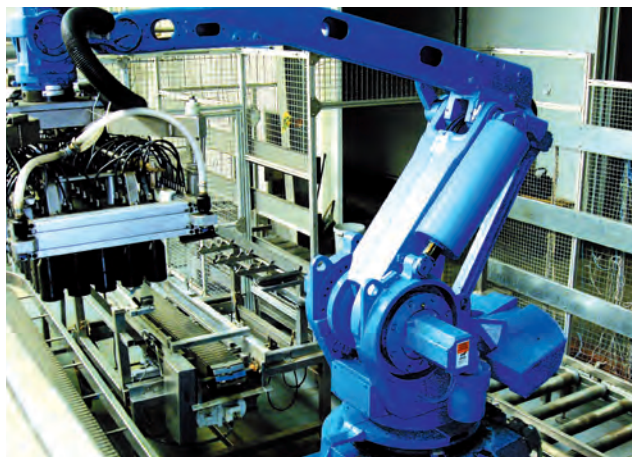
ROBOTICS



Your benefits:

- + Four-axle robot
- + Axle drive by means of servo-motors
- + Control system
- + Manual programming device with control panel
- + Combined gripper heads for all application areas
- + Safety enclosure with safety switches or security light grids

ROBOTICS



EVERYTHING FROM A SINGLE SOURCE

Thanks to our integration into the **PÜTZ GROUP** and the resulting **synergy effects** we are able to offer you not just machines and equipment for the beverage industry, but also the appropriate testing technology.

FOR OVER 50 YEARS
we have been successfully producing complex, customer-specific individual machines and complete systems for the beverage industry.

We will get your production on the path to success.

We look forward to receiving your request!

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CHAMBER PASTEURIZERS

Cutting-edge energy and control technology combined with low purchase and installation costs make your decision for a RICO chamber pasteurizer easy. The fully automatic process control can be customised easily to the different process parameters of a variety of products and at the same time allows for the documentation of process data.

Energetically highly efficient thermal insulation ensures a large, usable interior volume with small external dimensions and noticeably reduces operating costs.



CHOOSE THE RIGHT SIZE FOR YOU.

Chamber pasteurizers for 1 to 12 pallets. We are happy to realise special customer requests.

VERSATILE IN USE

Thanks to mobile design versions and the optional indoor / outdoor installation.

Standard configuration (for 1-12 pallets per throughput):

- + Stainless steel design
- + Statistical data recorder
- + Several retrievable pasteurization programmes
- + Temperature measurements inside the bottle incl. a digital display
- + Residual steam blowout
- + Throughput time: approx. 40 - 50 minutes
- + Pasteurization data recording to a USB storage device and the customer's network

Optional:

- + Lift gate
- + Available as a continuous throughput system for increased outputs with pallet feed and discharge conveyors
- + Version with heavy-duty castors
- + Flexible steam line
- + Special version for outdoor installation

CHAMBER PASTEURIZERS

**Our chamber pasteurizers –
maximum benefits for your production**



2-pallet chamber pasteurizer



6-pallet chamber pasteurizer

**TO DATE,
MORE THAN 350
CHAMBER
PASTEURIZERS**
are already successfully
in operation!



12-pallet chamber pasteurizer

CHAMBER PASTEURIZERS



Impact protection



Internal pallet transport



Large internal fans



Automatic lift gate

Your benefits:

- + Maximum energy efficiency**
thanks to improved 100 mm thick, high-quality insulation
- + High-quality workmanship**
Stainless steel construction and pneumatic components from Festo
- + Shortest response times**
thanks to integrated remote maintenance [as standard]
- + Stable construction**
including impact protection, designed for harsh production environments with forklift loading
- + Maintenance-friendly design**
Fan wheels can be replaced from below
- + Optimum steam circulation**
Large-diameter fan wheels inside the chamber
- + Optimum air circulation and easiest forklift loading**
thanks to the large interior
- + Steam exhaust valves**
After pasteurization, steam is automatically vented from the pasteurizer via a chimney / when the door is opened almost no steam is released
- + Modern quality data recording**
Pasteurization data is recorded on a USB stick or sent to production control systems via the network
- + More than 40 years of experience**
in the construction of chamber pasteurizers with over 300 installed units
- + The latest fully automatic pasteurization and process monitoring controls**
allow for individual adjustments for different customer products to achieve the best possible pasteurization results
- + Uniform heating of the pasteurization products proven in numerous measurement tests**
throughout the entire chamber pasteurizer
- + Extreme flexibility**
thanks to mobile design versions and optional outdoor installation
- + Customer-specific special versions on request**
- + Meets strict hygiene requirements**
- + Minimal personnel requirements**
- + Low product loss**
- + Space saving**
- + Cost effective**
thanks to low investment costs, energy savings and low spare part requirements

CHAMBER PASTEURIZERS



Technical details:

Performance	1-12 Euro pallets [other pallets on requests]
Insulation	100 mm
Savings thanks to the insulation's improved insulating properties	2-pallet device: 1 kWh per pasteurization process = up to 1 400 € per year [steam generation using electricity]
	12-pallet device: 4 kWh per pasteurization process = up to approx. 1 500 € per year [steam generation using natural gas]
Connection values	400 V / 50 Hz + N + PE
Compressed air feed line	6 mm ²
Compressed air operating pressure	4.5 to 6 bar
Compressed air connection	NW 7 coupling plug
Required steam pressure	0.5 - 1 bar [with the steam valve open]
Steam connection	DN40 / DN65 [depending on size of the plant]
Control	Siemens S7 with TP 700 Touch Panel

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EMPTYES SORTING SYSTEM

Bergquell Brauerei / Löbau

Due to the increased mixing degree in the case of returned empties problems and disturbances may occur in the filling line due to the unnecessary input of large amounts of foreign bottles. The inevitable effect is a drastic loss of power.

In order to operate the bottling line with a constantly high degree of efficiency, it is mandatory to fill the line with correctly sorted empties.



Task:

- Optimal utilization of the available space
- Connection to the existing filling line
- Low employment of staff
- Expandable for the future

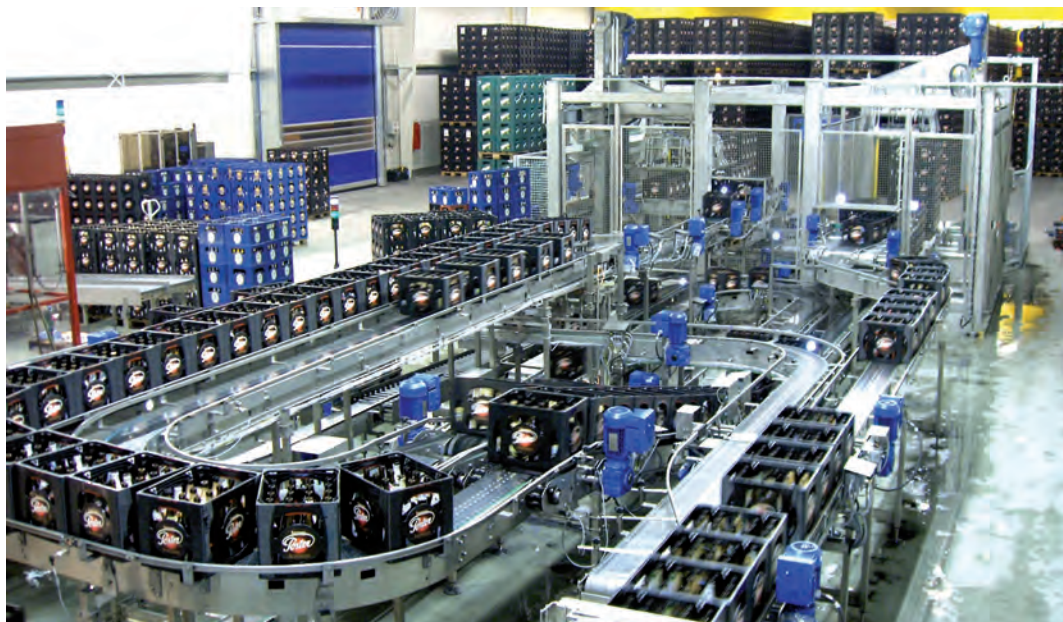
**... and this can be realized
within a period of 4 months!**

RICO has been ready to tackle this challenging task, has taken over the complete project planning and has been the interface of all partners.

Our solution:

- Plant capacity of up to 1 000 cases per hour, to be operated by only two workers
- Expandable to 1 500 cases per hour by the use of a second sorting robot

EMPTYES SORTING SYSTEM



- + Combined layer palletizer / depalletizer with two gripper heads
- + Complete case transport system with various distributor steps, junction steps, case stoppers
- + Pallet transport system
- + Belt antiseize agent dosing system
- + Case transport control system
- + Project engineering and realisation



- + Case control system
- + Sorting robot
- + Transfer systems

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PACKAGING MACHINE

Weingut Schloss Fels



Plant planning possible on the smallest space

To plan a complete bottling and packaging line in which are integrated all required units, ranging from new glass to the pallets ready for dispatch on less than 200 m², is really a challenge. Storage space that is indispensable for the smooth running operation must be reduced to a justifiable minimum.

Packaging machines have especially been reduced to your installation size and newly designed according to the plurality of your cardboards.



Scope of Delivery:

- ▶ Semi-automatic new glass removing system
- ▶ Packer type VARI, 1-head with universal packing head
- ▶ Cardboard turn-up system with hot glue
- ▶ Cardboard closer with hot glue
- ▶ Palletizer - robots with vacuum suction grippers
- ▶ Empty pallet magazine
- ▶ Bottle transport
- ▶ Package transport
- ▶ Pallet transport
- ▶ Packaged goods pallet stretcher
- ▶ Project planning and implementation

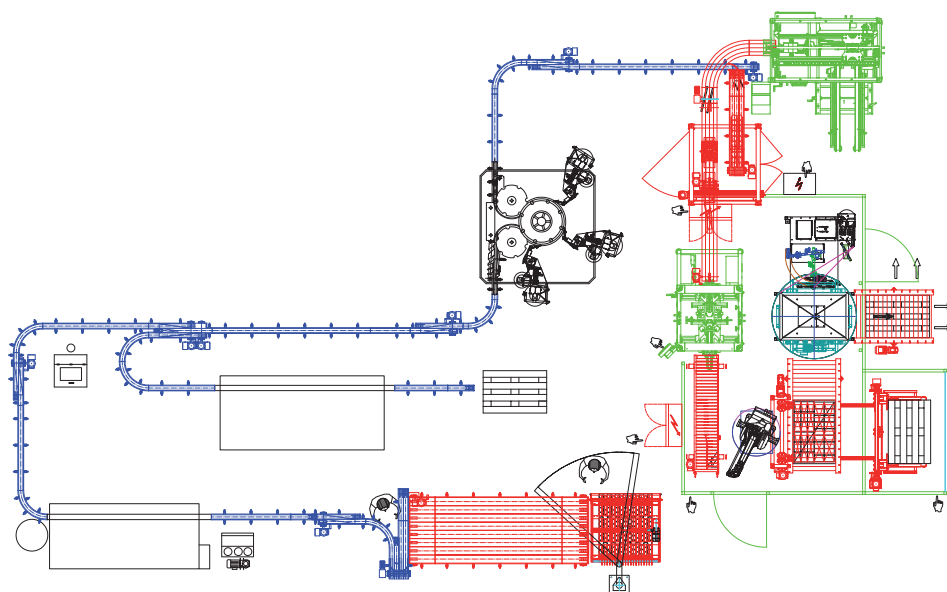


PACKAGING MACHINE



Technical details:

- 3 000 bottles/h
- Bottles: 8 different sizes, \varnothing 72 mm up to \varnothing 96 mm
- Packages: pre-glued and pre-cut cardboard
3 bottles / cardboard and 6 bottles / cardboard
Minimum cardboard with 75 mm



Layout packaging machine Weingut Schloss Fels

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**MACHINES AND PLANTS
FOR THE BEVERAGE INDUSTRIES:
CLOSING, PACKING, PASTEURIZATION**



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