

GRINK Machines for the beverage industry



DECROWNING



DECAPPING



CAPPING



SPECIAL





Dr. Michael Bäcker Managing Director / Owner

History

RINK has a history. We have been developing machines for the beverage industry for more than 50 years. Founded by the grandfather, established by his daughter and her husband and today managed by Dr. Michael Bäcker. The company combines the extensive experience of 3 generations and more than 1,000 well-known bottlers of beer, water, juice, wine, spirits and other beverages are successfully using our machines worldwide.

Our decrowner, decapper, capper or special machines provide the most economical solutions - Made in Germany.

Professionalism

All employees at **RINK** are professionals. Our customers are professionals, just like the suppliers we work with. We are not only specialists of our products but also know the customers and suppliers processes. All our machines have a CE certificate and meet the relevant standards and guidelines.

A quality management system certified according to DIN ISO 9001 guarantees the professional monitoring of our processes and the required 100% quality of our products. Regular qualification training ensures an up-to-date level of knowledge.

Passion

People build our machines. All these people unite the passion for machines. For 3 generations **RINK** has been managed by engineers who created – and still do – the solution-oriented thinking and technical orientation of the company. Our mission is to make the impossible possible. Our customers' wishes are our challenges.

Guided by this attitude, the **RINK** team is constantly involved in optimizing our products by listening to our customers, taking them seriously and integrating their experiences into the design and production process.

Reliability

We not only build reliable machines, but our complete acting gears towards trustworthy and reliable cooperation with our customers. **RINK**'s customers can rely on us to identify and resolve problems at a very early stage. We assist, even if we did not cause the problem. We do not see the sale of a machine as the finalization of a business, but as the beginning of a long-term business relationship.

As the owner of the company **RINK**, I, Dr. Michael Bäcker, am always available to our customers and organize a skilled support.



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Decrowning


In 1967, when crown corks were still removed by hand, company's founder Wilhelm **RINK** thought that this activity could be performed more efficiently by machine. This is how the company **RINK** was founded and the crate decrowner established. Many years later, Jochen Bäcker, who had taken over the company with his wife Ursula Bäcker, the daughter of the founder, came up with the idea of removing the cork by a rotary movement, similar to a hand opener.

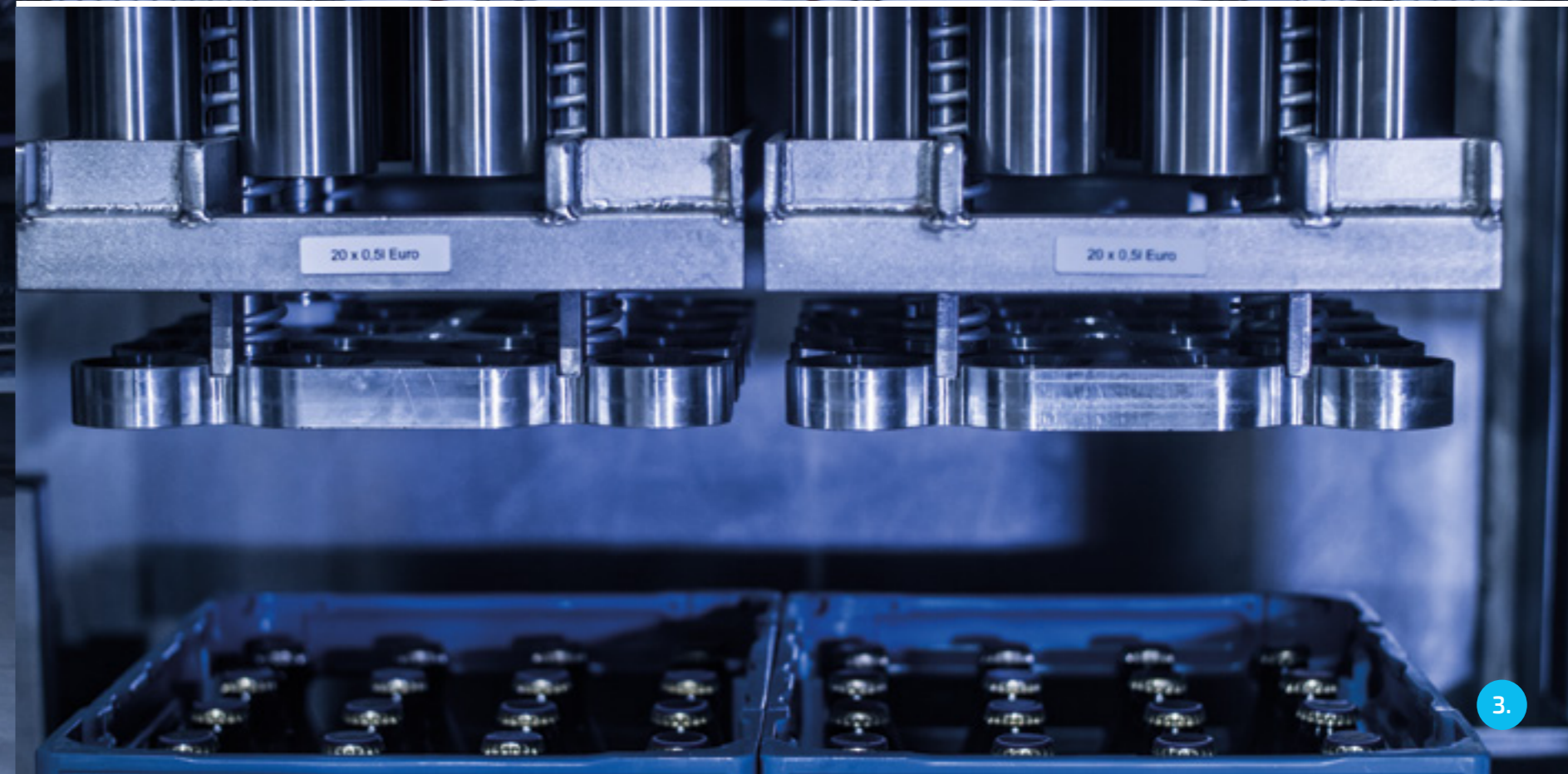
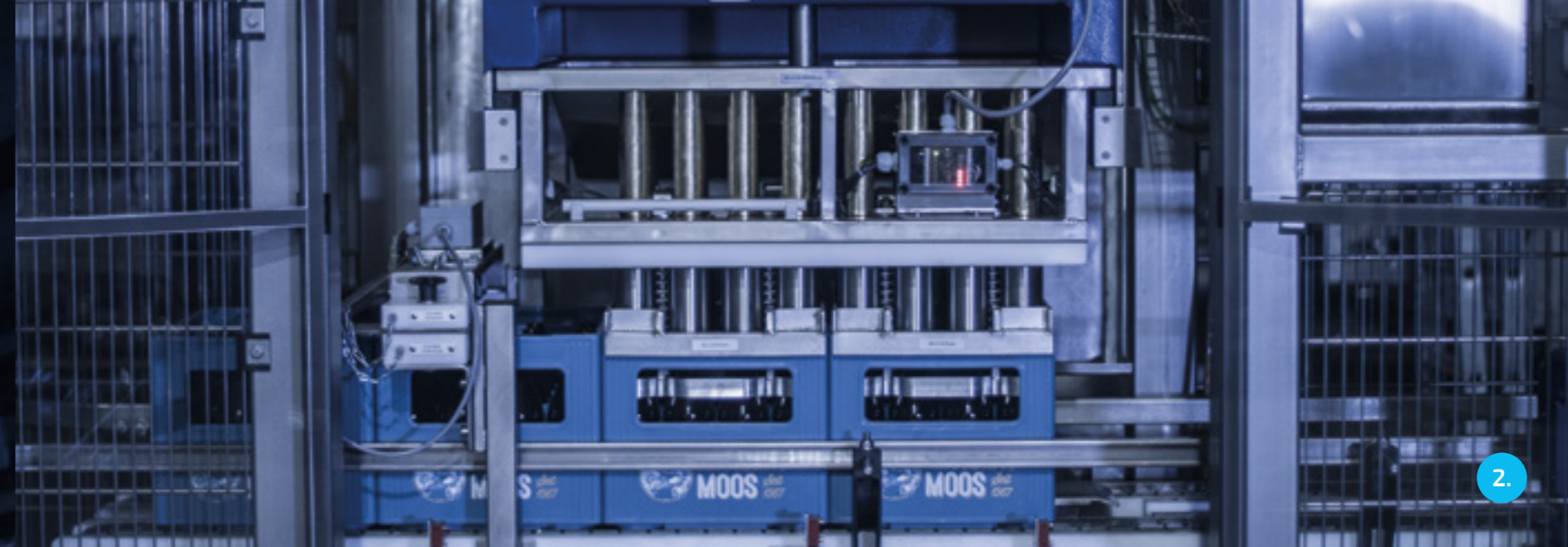
In 1995, the first machine was commissioned successfully. This concept makes it possible to decrown up to 4,500 crates per hour. A performance that has given the company **RINK** the title „world market leader in removing crown corks“ in 2012. To date, more than 200 machines of this type are successfully in use worldwide.

In the following years, the rotating concept has been applied also to the decrowning of bottles on the bottle conveyor, so that today three different types of machines are available on the market for the removal of crown corks:

 Crate decrowner KM 670

 Rotation decrowner RK 940

 Single bottle decrowner EN940



1. Reliable decrowning up to 2,700 crates/h
2. Intelligent decrowning by crown detection
3. Originally closed bottles are opened as well

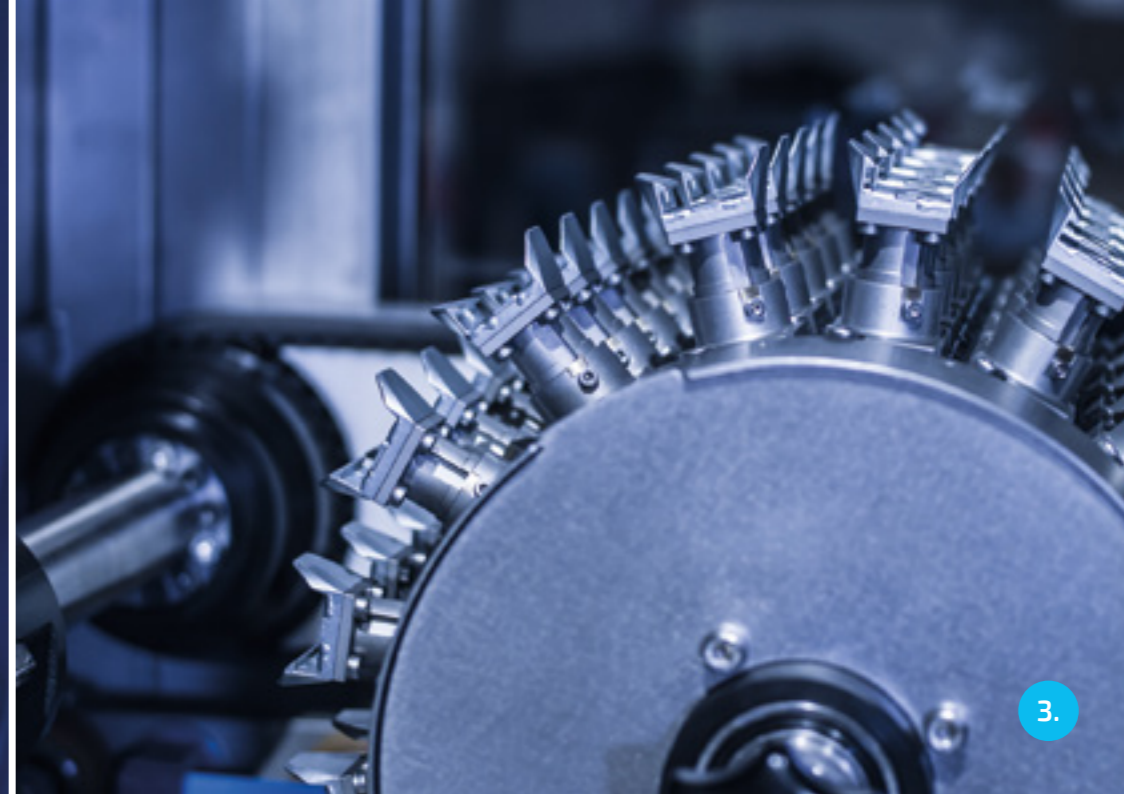




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1. Continuous decrowning on running conveyor 2. Operates like a bottle opener 3. Different bottle heights cause no problems 4. Format changeover in no time at all





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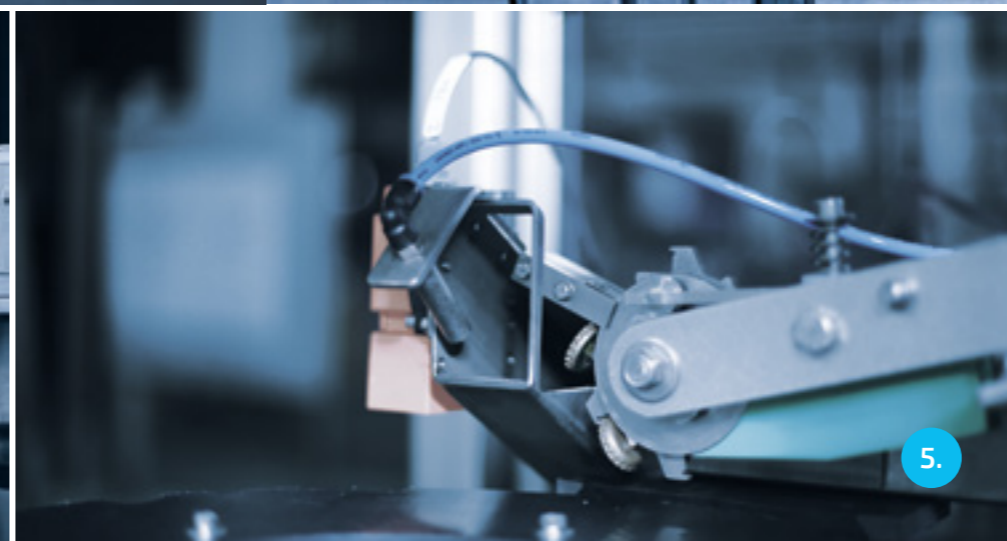
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1. Decrowning of bottles on bottle conveyor 2. Equipped with detection for remaining crown corks 3. Up to 16,000 bottles/h 4. Short changeover time and low wearing 5. No bottle damage by innovative decrowning wheel 6. Combinable with single bottle decapper





Decapping

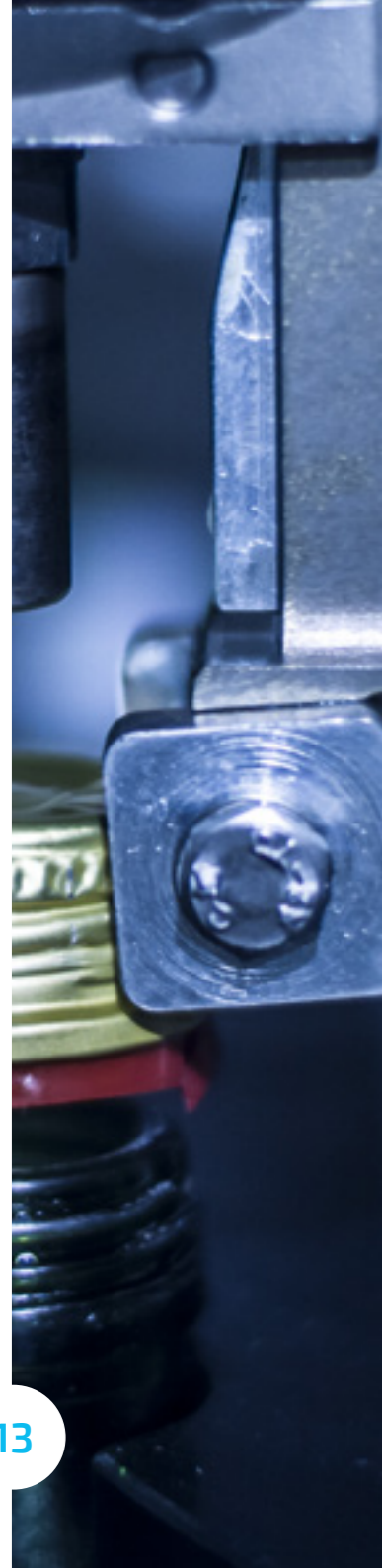
Soon after the market launch of the decrowner, customers made the request to **RINK** to decap bottles in crates. Until this time, screw caps were exclusively removed on the bottle conveyor. However, an expensive bottle separation after unpacking was necessary, which, in addition to the extensive space requirement, also had a negative effect on the bottle buffer between the unpacker and the bottle washer.

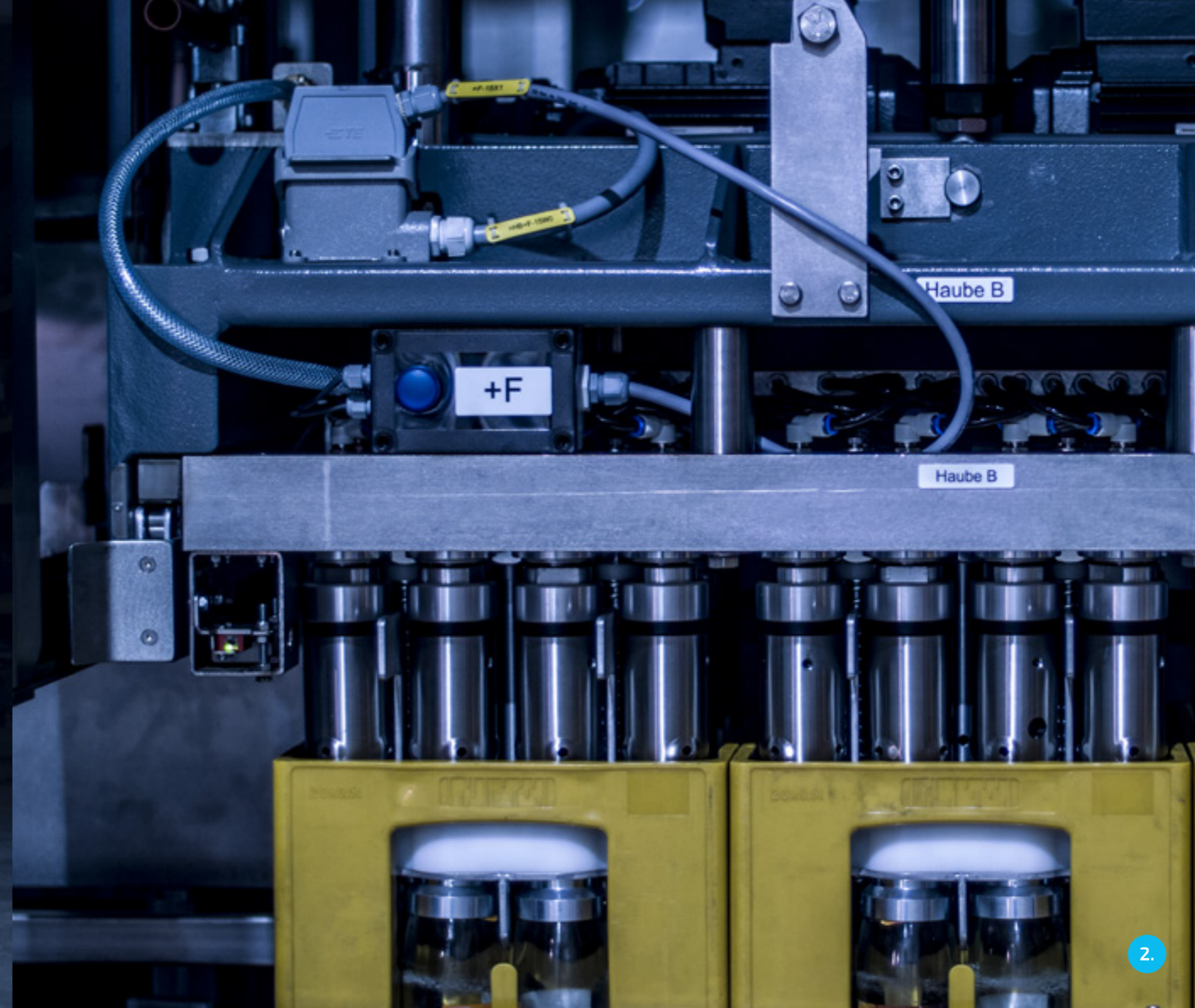
With the introduction of the crate decapper in 1973, we surprised our customers with a space-saving solution in front of the unpacker. This type of machine has been continuously optimized over the years, and today it is available in all sizes up to a single-lane output of 4,000 crates per hour. It is expandable by decrowning functionality.

In 2010, a solution for single bottles was developed as request of many customers. Since then, **RINK** is the only company in the world that offers both: a decapper in the crate as well as on the bottle conveyor. Customers can choose the most economical machine without having to forego the proven quality of **RINK**:

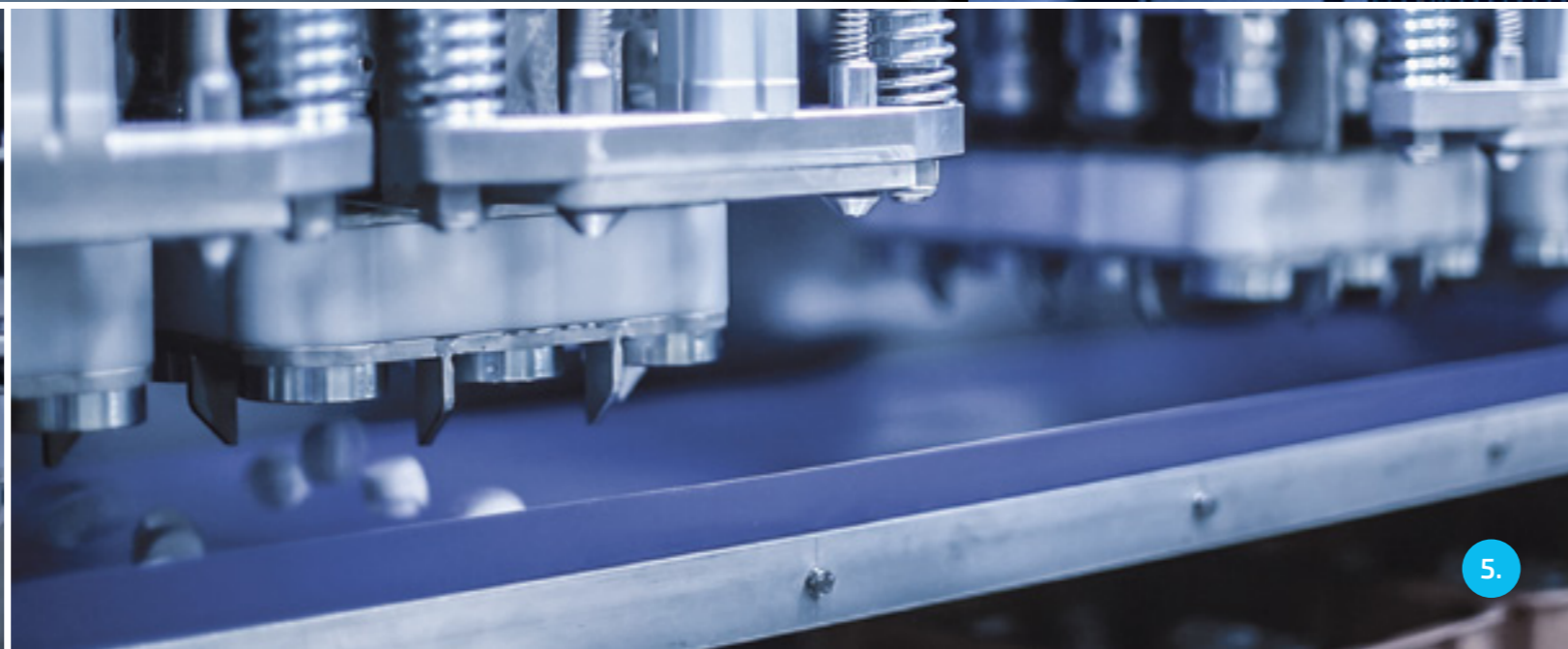
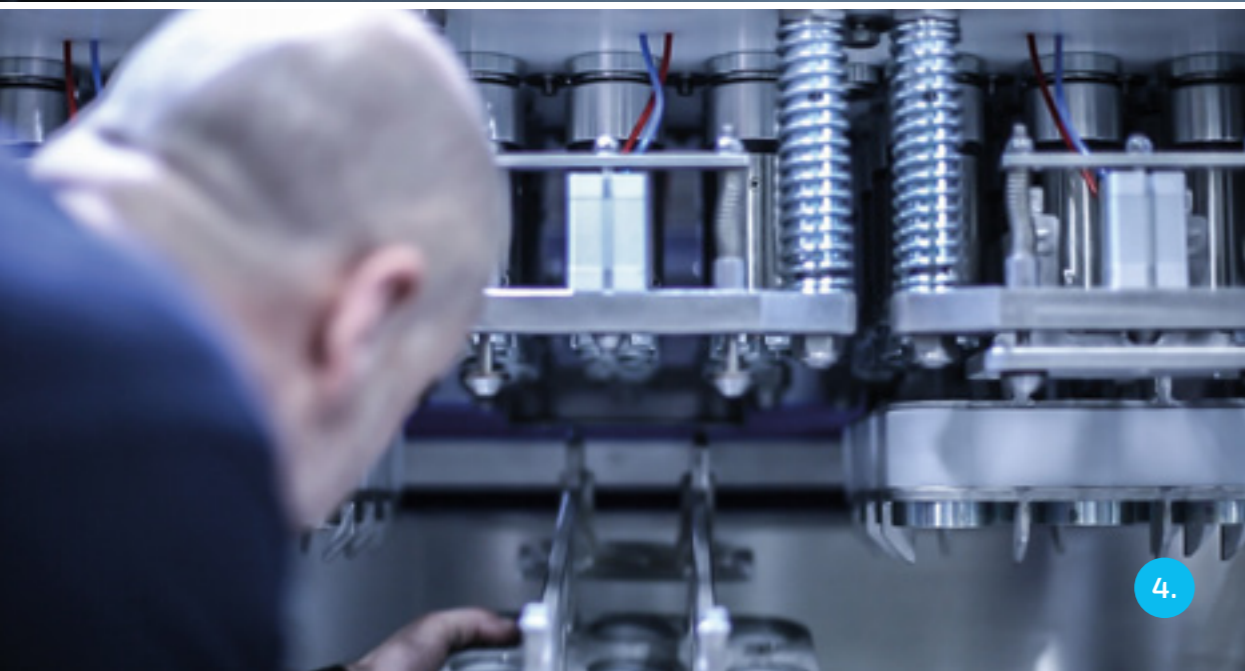
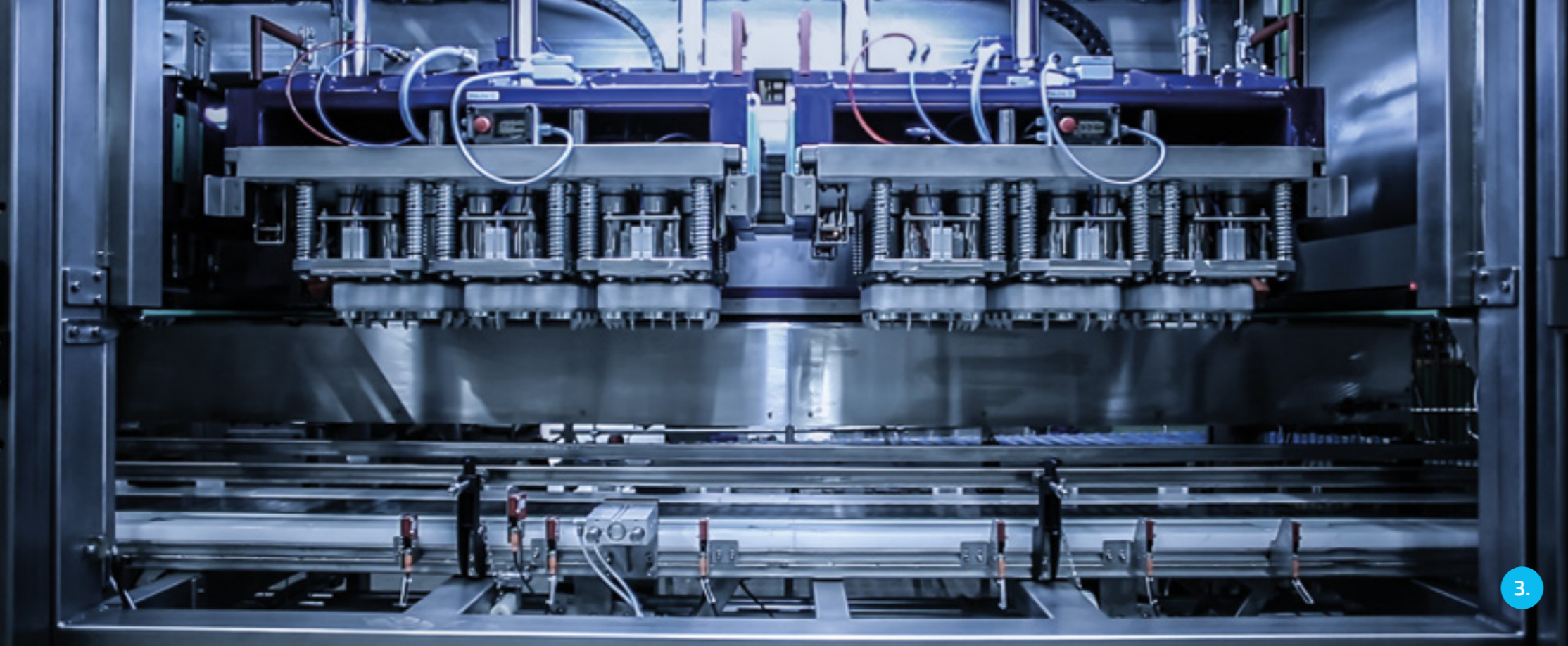
🔍 Crate decapper KM 790

🔍 Single bottle decapper ESR





1. Single-lane crate decapper for a capacity of 500 up to 4,000 crates/h 2. Bottle gentle decapping heads, that close on a detected cap only

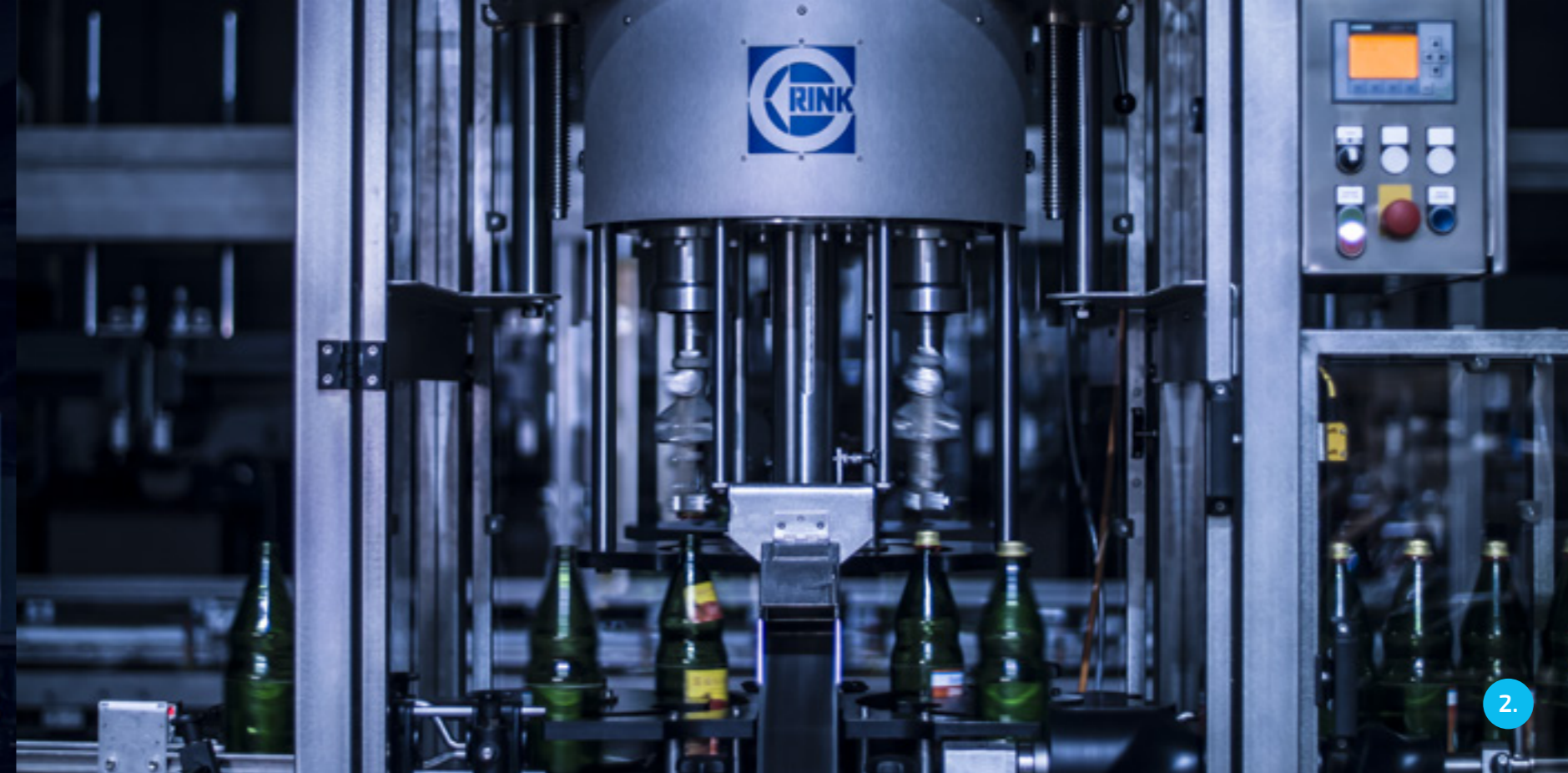


3. Decapping unit with innovative crash detection 4. Easy changeover technology 5. Cap disposal with blowing device 6. Double-lane design 7. Combinable with decrowning also





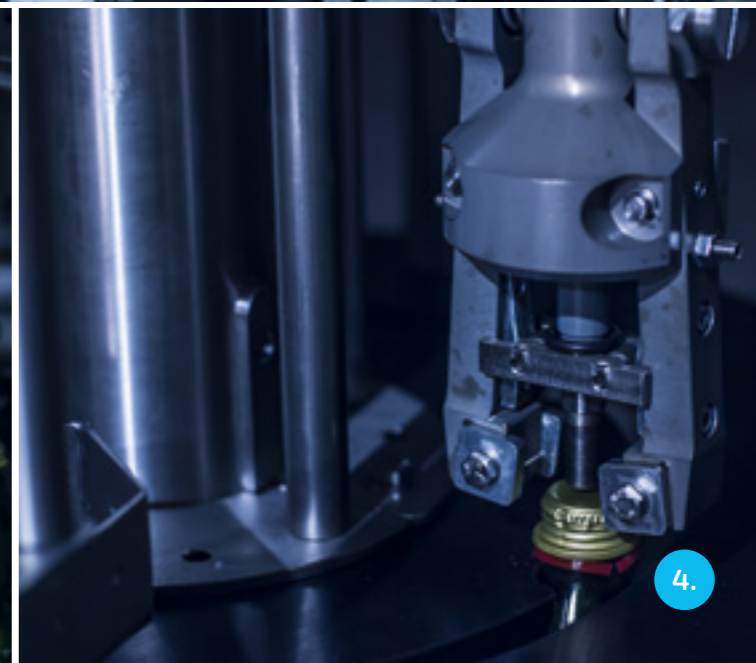
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1. Single bottle decapper up to 16,000 bottles/h 2. Easy format changeover without loosen the belt 3. Disposal of caps via container or blowing device 4. Reliable decapping by bottle neck guiding





Capping

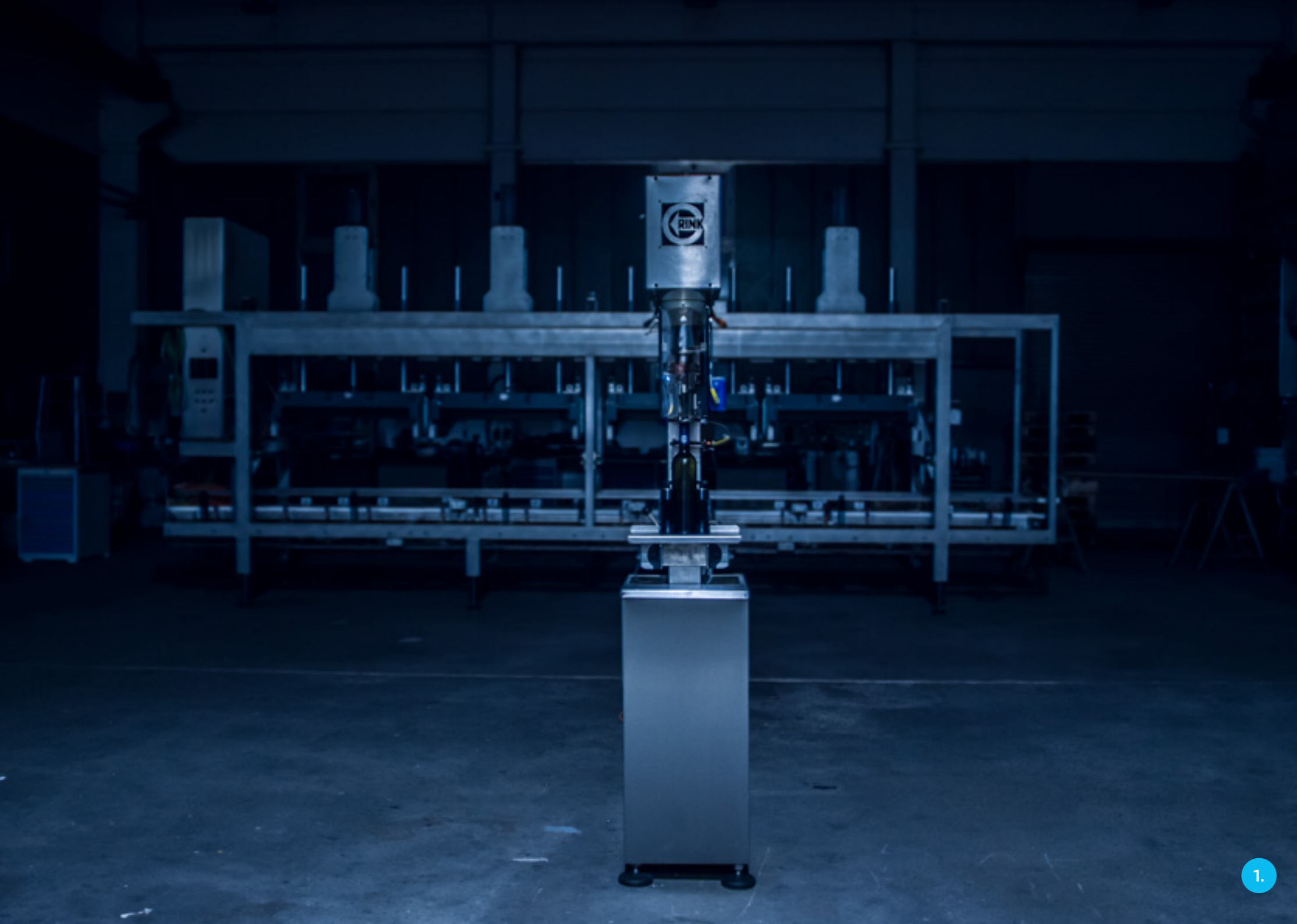
With the introduction of the one-way deposit in 2003, the returnable system and also the typical **RINK** customers came under pressure. Meanwhile the third generation with Dr. Michael Bäcker was successfully active in the family-run company. Together with his father, Jochen Bäcker, he decided to broaden the market and to include the capping technology into the product range.

The first capping machines were sold in 2006. The goal was to find new clients and not only to establish as a specialist for opening, but also for capping bottles in the market. In the meantime, the company has more than 10 years of experience in capping technology and is a successful supplier of the following machine types:

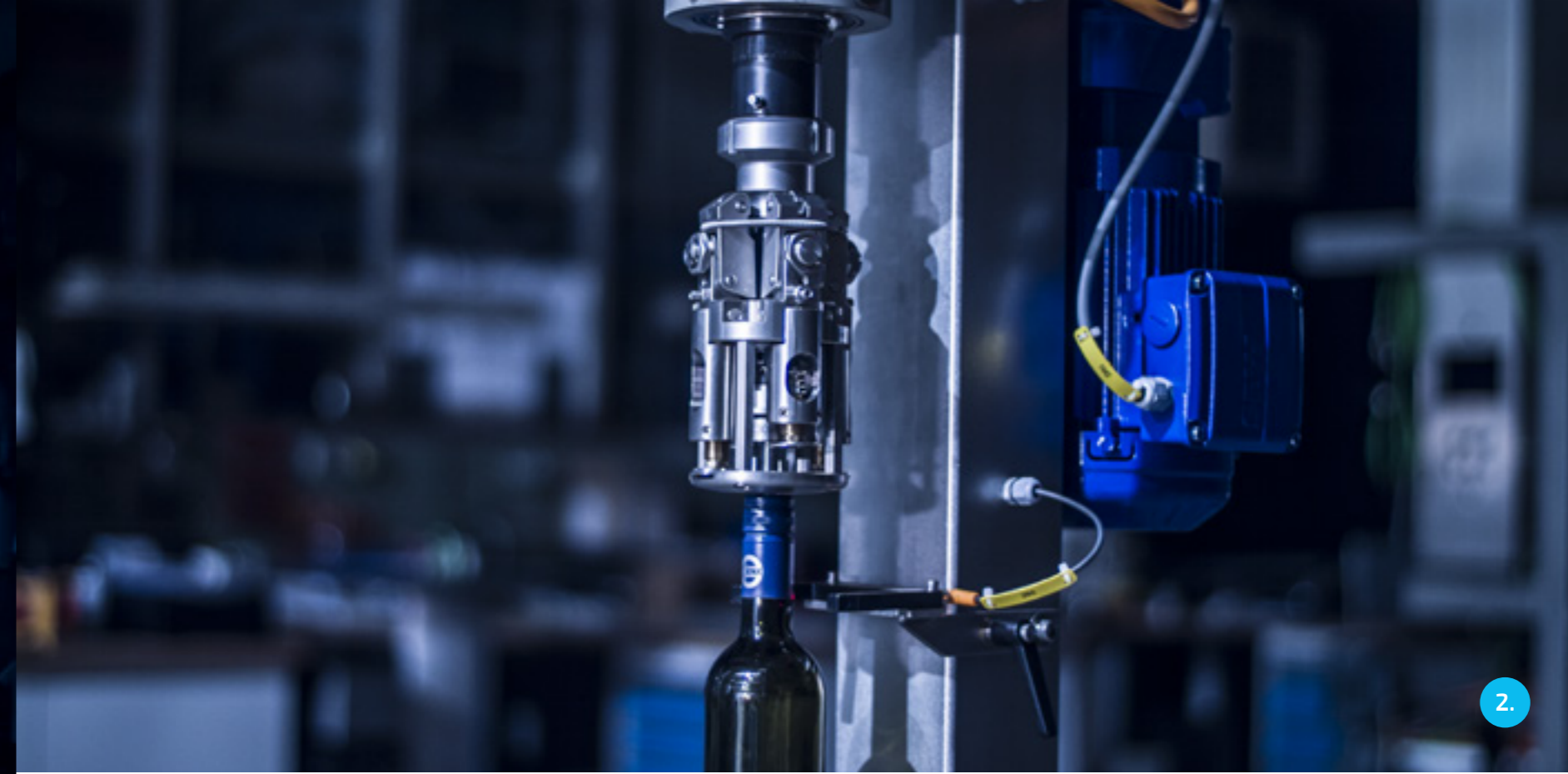
- ↳ Semi-automatic capper H1
- ↳ 1-head capper VS-1
- ↳ Multihead capper VRA

In addition to new machines, we also carry out retrofitting and modernizations of existing lines, focusing on the capping heads as well as the cap feeding (sorter, capping chute and -transfer as well as cap elevator).

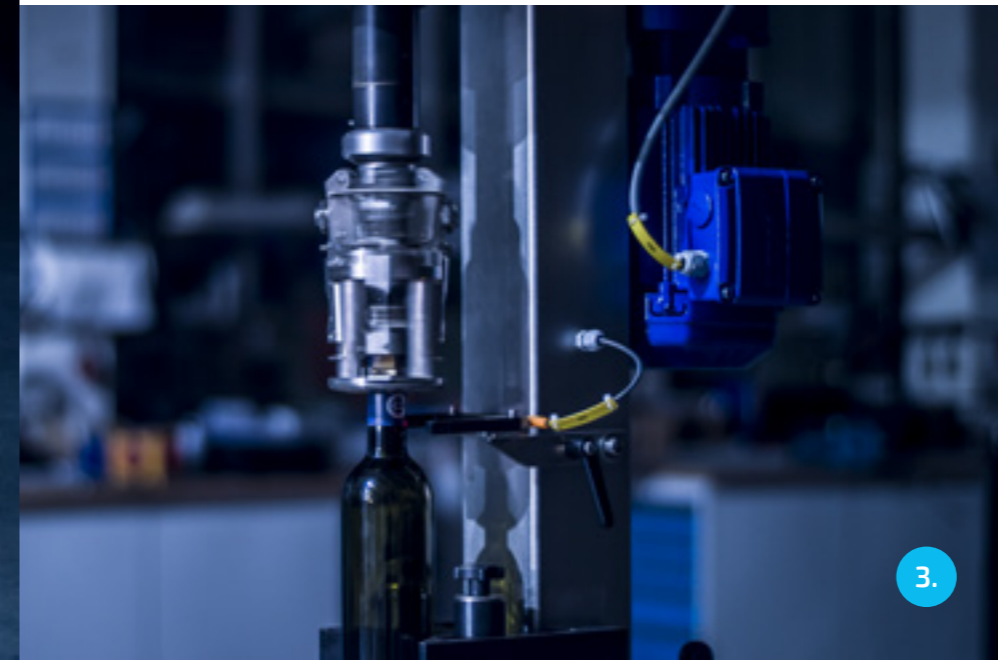




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- 1. Semi-automatic capper for aluminium roll-on caps
- 2. High quality own capping head with 2 thread rollers, 2 tuck under rollers and safety plunger
- 3. Electric drive for rotation- and lifting movement
- 4. Easy height adjustment by measuring tape on the back side and jog operation





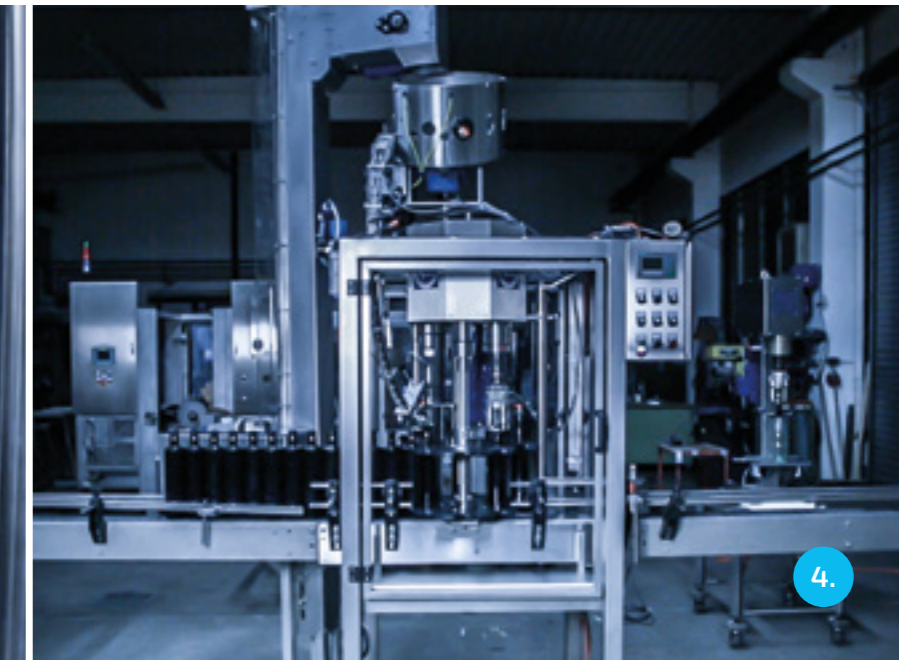
1.



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1. Innovative 1-head capper for up to 3,000 bottles/h 2. Version for different kind of caps possible 3. Electric drive for rotation- and lifting movement 4. Easy to integrate into existing conveyor, without own conveyor drive





1.



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6.

1. Multihead capper for up to 16,000 bottles/h 2. Innovative cap transfer 3. Easy to integrate into existing conveyor, without own conveyor drive 4. Reliable capping by bottle neck guiding 5. High quality head support bearing 6. Low-noise air sorter with easiest changeover technology





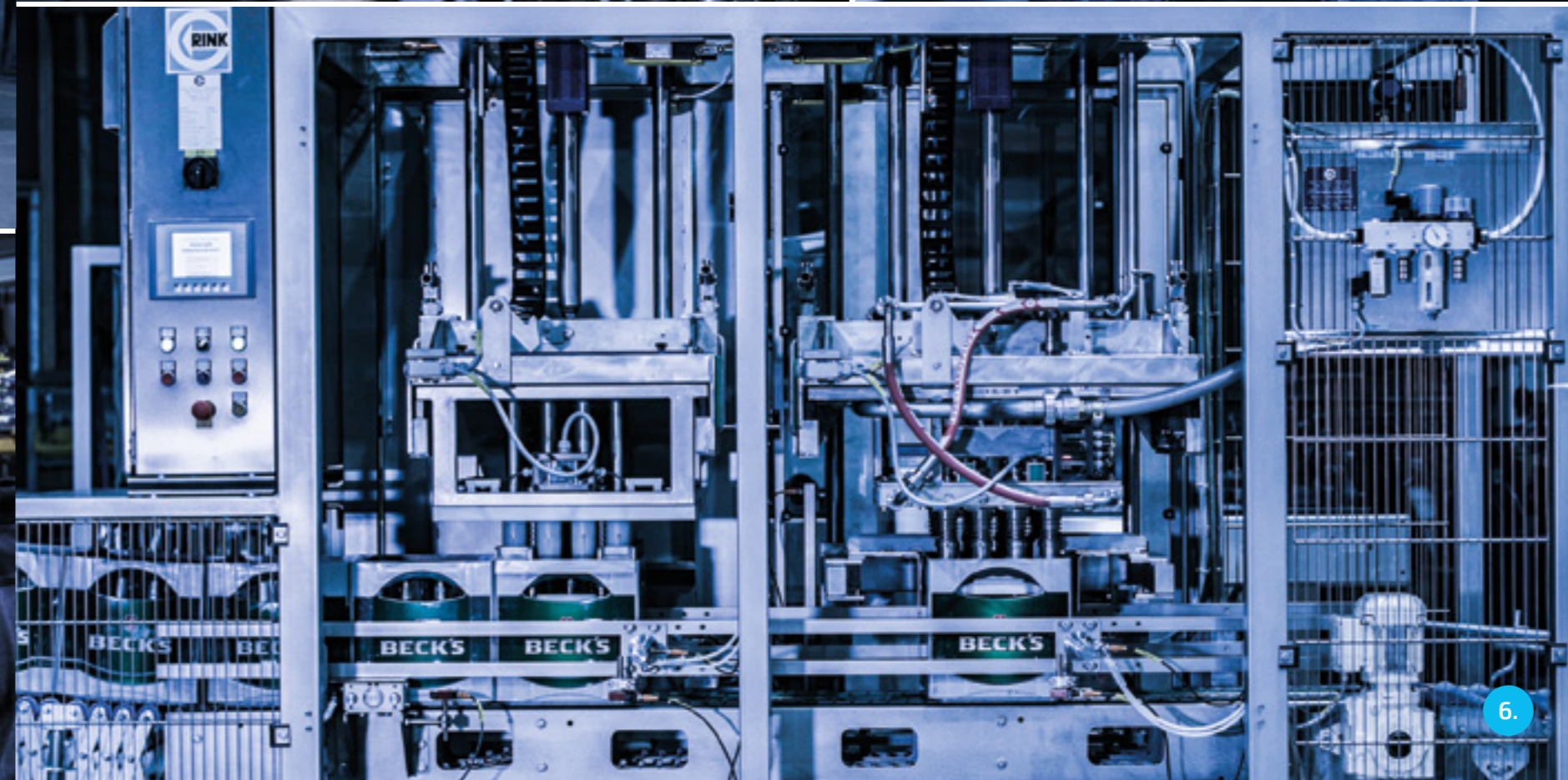
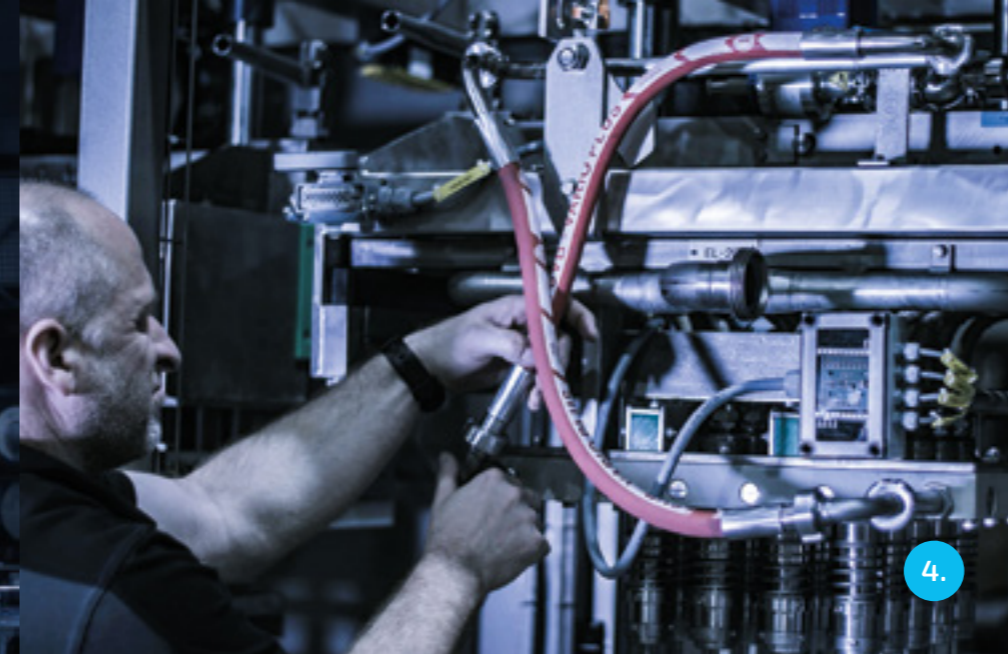
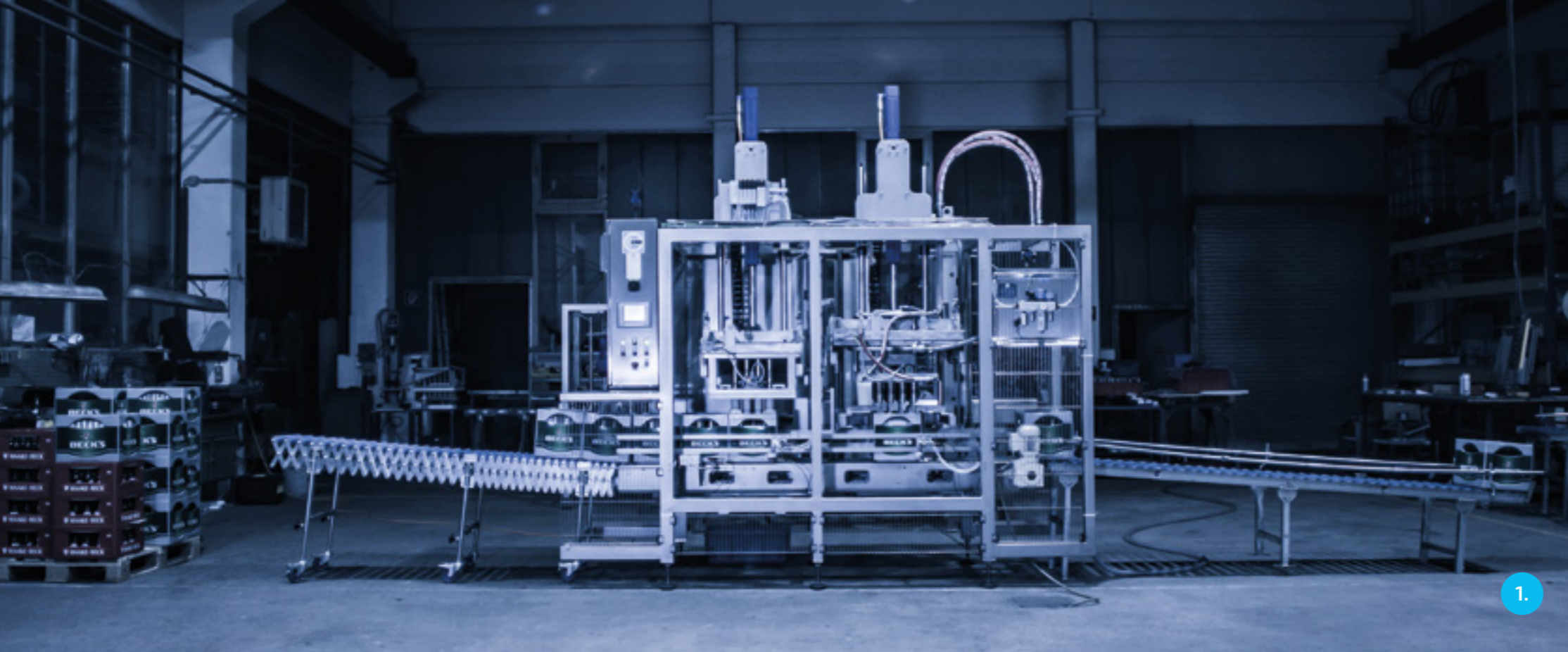
Special machines

We have been developing machines for the beverage industry for 50 years. In three generations, **RINK** as a family business has been and is led by engineers who have accumulated a wealth of experience in more than 1,000 machines designed, assembled and sold worldwide. For this reason, our customers have always approached us with very special problems.

In one case, we were asked to develop a solution for deformed returnable PET bottles, in another case a machine for the hygienic emptying of bottles and cans. With the introduction of the BVS closure, an economical system for the removal of the neck sleeve remaining after opening was required for the refilling.

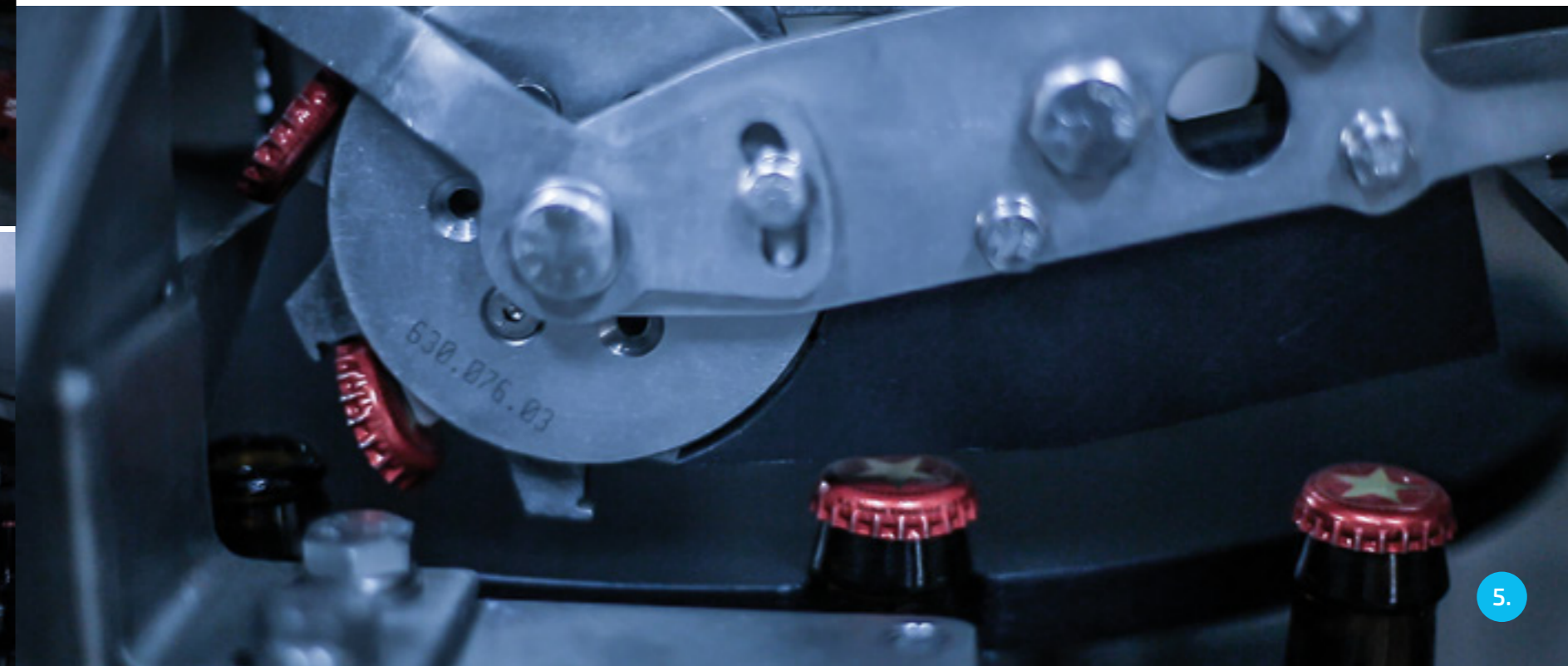
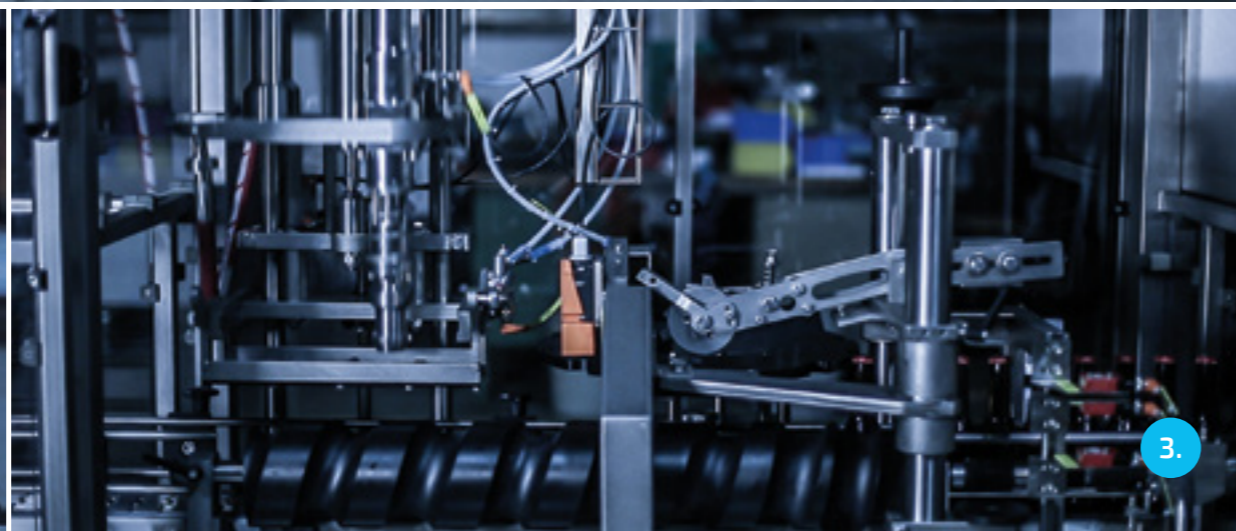
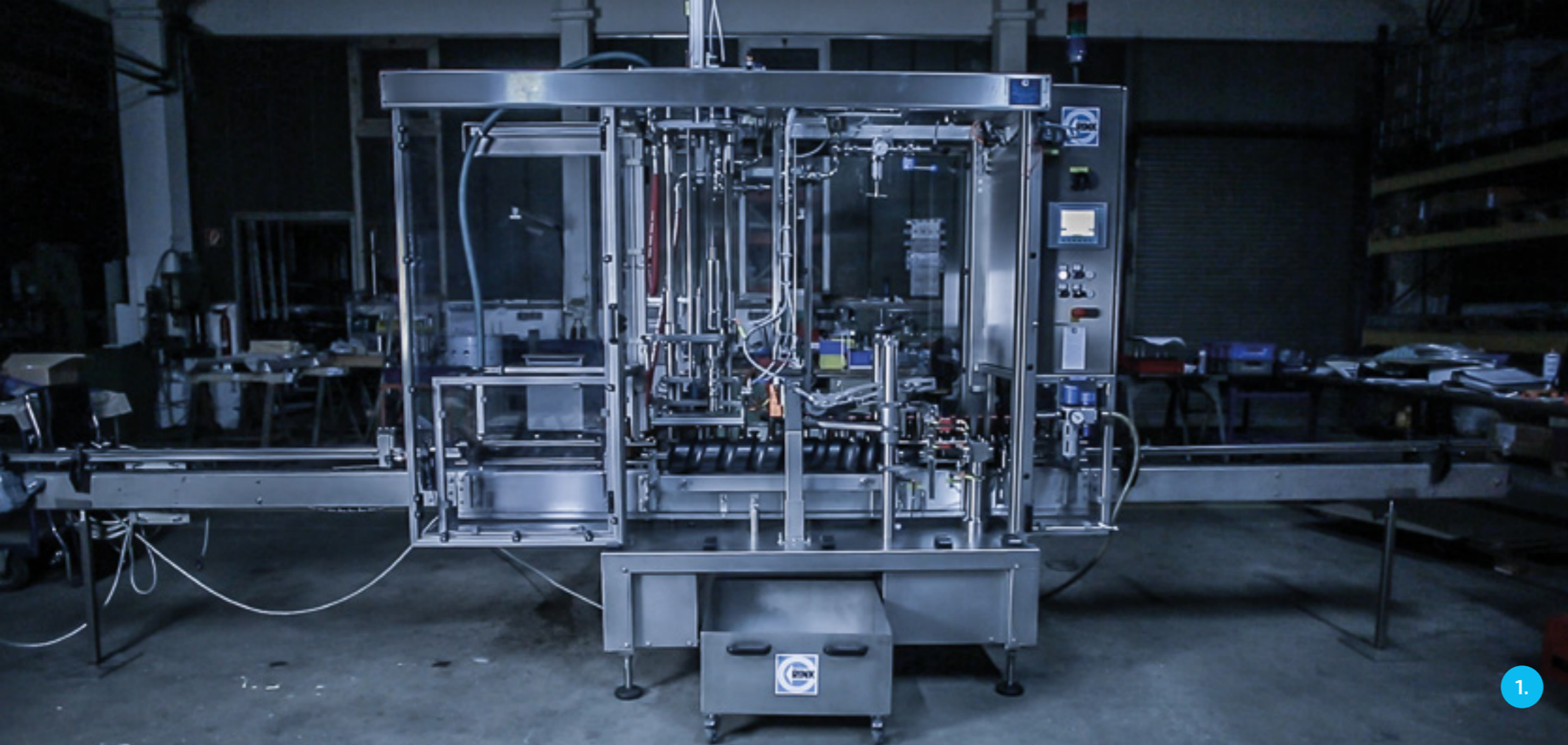
In all cases, it was our job to find an innovative and reliable solution for our customers. Sometimes we even won prizes, like e.g. the innovation prize of the German wine association for our sleeve remover. **RINK**'s special machine range covers the following fields:

- ☞ Crate emptier VEK920
- ☞ Container emptier EV940
- ☞ Sleeve remover VEM
- ☞ Regenerator KM690RE



1. Opening and emptying of bottles and cans within a crate 2. Bottles are opened by decrowning and/or decapping, cans by punching a hole 3. For a performance up to 350 crates/h 4. Easy format changeover 5. Hygienic emptying with minimal uptake of oxygen by CO₂-overpressure 6. Mode of operation in two steps: 1. opening / 2. emptying





1. Opening and emptying of bottles and cans on a conveyor 2. For a performance up to 6,000 bottles/h 3. Mode of operation in two steps: 1. opening / 2. emptying 4. Hygienic emptying with minimal uptake of oxygen by CO₂-overpressure 5. Opening of bottles is made by decrowning and / or decapping, for cans by punching a hole





1. Sleeve remover with a performance up to 5,600 bottles/h 2. Machine can easily be integrated into the existing conveyor and can be quickly converted with simple format parts 3. No bottle damage at cutting the sleeve 4. Sleeves are stripped off and drop into a container under the machine



Customers

ABInBev SABMiller Coca Cola Heineken Carlsberg Group CCU Grupo Damm Hite S. Pellegrino Spa Monopole Grupa Zywiec Sources Rosport Ferrarelle Olvi Brau Union Österreich Stieglbrauerei zu Salzburg Braucommune Freistadt Radeberger Gruppe Oettinger Brauerei Gerolsteiner Brunnen Bitburger Gruppe Krombacher Brauerei Paulaner Brauerei Adelholzer Alpenquellen Badische Staatsbrauerei Rothaus Warsteiner Brauerei Peterstaler Mineralquellen Holsten Brauerei Brauerei C. & A. Veltins Bad Dürrheimer Mineralbrunnen Erdinger Weißbräu Kulmbacher Brauerei Augustiner Bräu Staatlich Bad Meinberger Mineralbrunnen Kölner Hofbräu Josef Früh Mineralbrunnen Teinach Püls-Bräu Neumarkter Lammsbräu Brauerei Gebr. Maisel Nordbräu Ingolstadt Hofbrauhaus Wolters Ustersbacher Privatbrauerei Brauerei Gold Ochsen Brauerei Aying Schlossbrauerei Fuchsberg Salvus Mineralbrunnen Auburg Quelle Friedrich Lütvagt Rheinsberger Preussenquelle Kelterei Müller ORO Obstverwertung Sachsenland Fruchtquell Winzergenossenschaft Mayschoß-Altenahr Winzervereinigung Freiburg-Unstrut Staatsweingut Meersburg Weingut Ernst Bretz Weingut am Stein Ölmühle Moog BIO PLANÈTE Sektkellerei Groß-Winternheim

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