



Filling and Packaging – Worldwide.

Innofill



Keeping Caps On –  
Capping Technology  
from KHS

# Perfectly Capped! – Capping Technology at its Finest

There is an ever-increasing variety of bottle cap types. Whatever you want to use to cap your bottles – crown corks, twist crown caps, pull-tab caps, or screw caps made of metal or plastic, sport caps or natural/synthetic corks – KHS offers you the right capping equipment for every style of bottle cap.



Based on many years of experience, comprehensive know-how, constant research and development, we have developed capping systems to solve all your capping needs absolutely reliably, perfectly, and highly efficiently and economically.

Emphasis is placed on gentlest possible product and container handling as well as top hygienic safety. The possibility of integrating cappers in any filler block saves space, avoids interfaces, shortens conveying routes, and increases the overall performance of your line.

Take advantage of KHS' vast competence potential.





## The KHS Capper Product Range – You Have the Choice

### **Innofill NK natural corks**

Further improved tried and tested technology. The ideal solution for your wine assortment.



### **Innofill KK crowner**

Top-of-the-line high-performance crowner! Hygienic, flexible, rugged, and highly efficient.



### **Innofill SV-S aseptic screw capper**

A pace-setting innovation! A hygienically designed, servo-driven PET screw capper.



### **KHS Innofill SV-M all-purpose screw capper**

Capping technology for sealing glass and plastic bottles with screw caps.



# KHS Innofill NK Natural Corker –

Safety and reliability for your product quality



A four-jaw cork compressor based on the principle of the iris.  
**High corking quality through uniform cork compression, flexible with regard to deviations in cork diameters.**

Cork dust evacuation and vacuuming facility for air extraction in the bottle neck prior to corking.  
**Reliable seating of natural corks even of those made of problematical cork materials. Reduced O<sub>2</sub> pick-up.**

Electrically heated cork compressor.  
**Microbiological safety for your product quality.**

Cork compressor segments coated with hardened stainless steel.  
**Less wear pressing corks into bottles. Long service life.**

Large-size rollers in the cork compressor for higher pressing force.  
**Hence, trouble-free processing of synthetic corks.**

Cork compressor installation and removal without tools.  
Quick-change bells equipped with bayonet locks.  
**Simple, time-saving changeover.**





Automatic cork press-in depth adjustment.

**Precision for perfect corking.**

For natural, composite, and synthetic corks, 20 to 25 mm in diameter and 35 to 50 mm in length.

**Great flexibility and a wide range of applications.**

**Output: Up to 35,000 bph**



# KHS Innofill KK Crowner –

Reliable, highly efficient, and sparkling clean



Microbiological safety and little servicing effort through grease- and lubricant-free, open-type crowning elements made of stainless steel coupled with automatic, intensive, and thorough sanitizing.

Direct crown cork feed by means of simple and failsafe cap transfer from the cork chute to the capping element.  
**High machine efficiency and low cost of maintenance.**

Quick and easy removal and installation of capping assemblies.  
**High machine availability, little servicing effort.**

Capacity range of up to 72,000 bottles per hour with up to 24 capping elements.  
**High performance for your entire filling area.**

Traveling top and bottom crown cork control in the magnetic agitator. Only a few crown corks in the hopper. Optional automatic cleaning.  
**Gentle treatment of crown corks.**

Optionally available:  
Facilities for selective cleaning and flushing of capping elements, the crown cork duct, and magnetic agitator.  
**High hygienic safety.**





Two different capping elements:

For standard bottles:  $\pm 2$  mm tolerance for differences in height.

For large bottles:  $\pm 5$  mm tolerance for differences in height.

**Reliable handling of even critical bottle tolerances.**

**Greater flexibility for your filling line.**

**Output: Up to 72,000 bph**



# Innofill SV-S Aseptic Screw Capper – The *Mister Clean* of cappers



The hygienically designed aseptic Innofill SV-S screw capper equipped with servo technology is a real revolution in capping technology. Entirely different mode of operation versus conventional cappers.

The capping elements are rotated only while the caps are being screwed on. No vertical motion. No lifting.

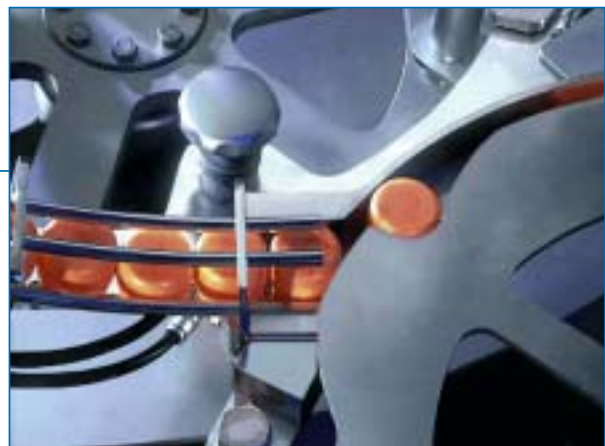
**Great stability. Low-wear.  
Low cost of maintenance.**

Slender center column with additional nozzles for inside cleaning behind the capping spindles.

**Highest-level hygiene safety.**

Caps are transferred from the cap feed chute to the capping head by a transfer star and ramp.

**Reliable, fast mode of operation.**



# Constructed in KHS Hygiene Design –

Free of grease and lubricants with automatic sanitizing.

Hygienic down to the last detail.



Servo drives for each individual capping spindle. Torque-controlled cap screwing force. Constant and reproducible torques at all times, regardless of the capping and operating time of the capping elements. Output-independent. The torque is centrally adjusted at a display screen or selected from cap type memory to the various types of screw cap.

**This frees you from closure supplier dependencies and enables you to very flexibly choose cap styles.**

**Always consistently easy-to-open bottles.**

**High product quality.**



Neck handling and lift cam for reliable bottle positioning.

**Gentle, short-stroke bottle motions.**

Grease- and lubricant-free design. Open-type design of all components. Capping elements with flushing openings and exposed clamping collars. Reliable, automatic exterior sanitizing and disinfection.

**High microbiological safety.**

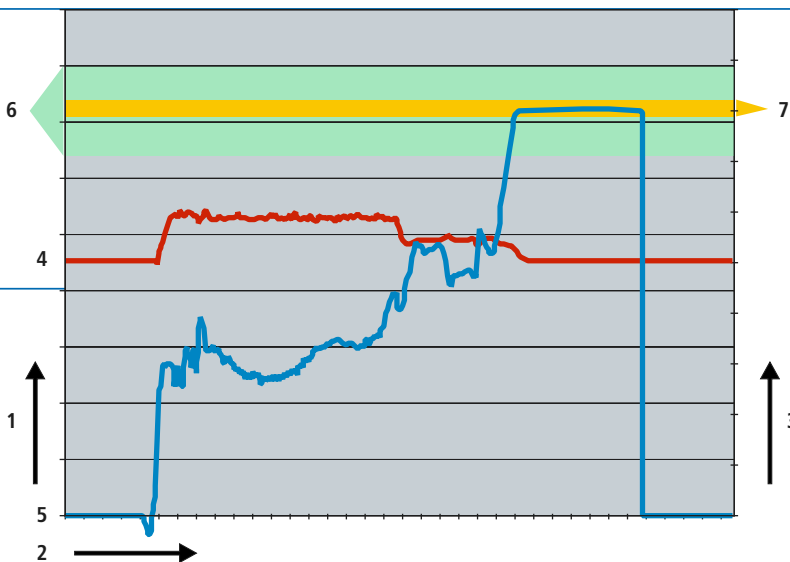
**Predestined for use in aseptic bottling lines.**

Fast and easy changeover to other screw cap styles and diameters.

**High machine availability.**

## Capping head

- 1 Flushing opening
- 2 Exposed clamping collar



## Speed and torque curve during the capping process

- 1 Speed
- 2 Capping distance
- 3 Torque
- 4 Speed curve
- 5 Torque curve
- 6 Capping torque tolerance range of conventional screw cappers
- 7 Capping torque tolerance range of the KHS Innofill SV screw capper

# Innofill SV-M All-purpose Screw Capper – It caps and caps and caps...



Simple, rugged design.

**Uncomplicated handling. Dependable performance.**

**Long service life.**

Capable of processing various types metal and plastic screw caps for sealing glass and plastic bottles.

**Application flexibility.**

Mechanical mode of operation with spindles and couplings, hopper, and chute. Constant torques.

**High machine availability.**

**Easy changeover to other types of closure.**

**Hot water flushing possible.**

**Greaseless capping elements.**

**Output: Up to 60,000 bph**



# KHS Capping Technology – Always First-rate Quality



KHS also offers uncompromising high-tech solutions in capping technology with the usual outstanding quality and many well thought-out, practical details.

Ideal not only for aseptic bottling lines:  
The KHS Innosept cap sterilizer for plastic closures.  
Integrable and retrofittable in all bottling lines.

Hygienic design. Prerequisite for perfect exterior sanitizing  
in the filler block for example

**Optimum cleaning effect and high hygienic safety  
for your products.**



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