

Innofill Core Competence for Your Branch of Industry



Filling Systems for  
the Brewing Industry

# All the Best for Your Beer – Advanced bottling technology from KHS

Just leave the filling of your beer to the technology from KHS. We have the longest experience in this field. More than 100 years. No other has more fillers in operation worldwide.



Whatever style of beer you would like to bottle, KHS offers the perfect solution. Beer in glass, beer in PET, beer in cans, beer in kegs. Highly hygienic or ultra-clean. From process engineering to palletizing, all available from KHS – all from one source. Made to order. High performance, effective, and economical.

Take advantage of KHS' vast competence potential. No other is more capable. You can rest assured. Take advantage of it.





## The Big Four – Especially for Beer

### **Innofill DRS-ZMS**

Probe filling system, ideal for processing a wide range of bottle styles.



### **Innofill DRS-ZMS/S**

With filling level probes as purging tubes for low-oxygen pick-up filling of beer in PET and glass bottles.



### **Innofill DRF/DVF**

With long filling tubes for gentle bottom-up filling. Ideal for bottling beer in large-volume PET bottles.



### **Innofill DPG-ZMS**

System-optimized, pneumatic filling system.



## **KHS Filling Technology –** The heart of your beer bottling line



### **KHS – competence in filling technology**

High-capacity filler-capper block equipped with a hygienic front table and freestanding machine guard panels.





**Membrane technology within the filling valves.**

The hygienic solution for reliable continuous filling valve operation.



**Hygienically designed front table.**

Specially designed by KHS. No niches, dead spaces, corners, and edges. High-level ease of external sanitizing.



**Total transparency.**

**Complete runoff of cleaning media.**

Hygienic through and through. Top performance in modern design. Visual lightness of the glass machine housing. Hygienically perfect, high-quality stainless steel design; hygienically designed front table and container conveyors. Long service life. Low-maintenance. Excellent accessibility.



**Exterior sanitizing of the entire filling area.**

Flushoff cleaning at predefined time intervals. Cleanliness for the entire filler block (rinsers, filler, capper). Hygiene right down the line.

# Everything for Top Quality –

Many well thought-out details creating a whole



HPI proportional pressure control, computer-controlled injection pressure.  
Reliable displacement of residual air out of bottle necks.  
**Consistent process values in bottle necks also during filler deceleration and acceleration phases.**

Change parts for glass or PET bottles.  
**Wear-resistant. Hygienic, simple, easy-to-clean design.**



Central control with easy-to-use operator prompting.  
PC-based machine information system  
**Perfect man-machine dialog. Comprehensive up-to-date information at all times.**

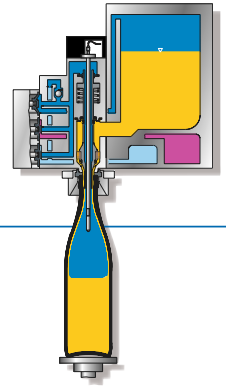
Servo drives for the entire filling block.  
**No joint shafts. No wear parts.**  
**Low-maintenance.**

All filling valves have only a few mechanical moving parts.  
**Long service life. Little servicing effort.**



# Innofill DRS-ZMS –

Computer-controlled, pressure filling system with filling level probes



Ideal, low-oxygen method for bottling beer in glass. Multiple evacuation with CO<sub>2</sub> purging for ideal process values and low CO<sub>2</sub> consumption.

Flexible filling levels determined by probes.

**Lower beer consumption thanks to exact filling levels.**

Filling with a swirler without use of a spreader in the bottle. Minimum setup time, push-of-a-button filling level changeover.

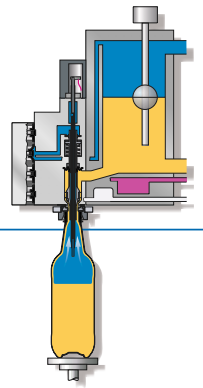
**Independent of bottle shapes and sizes.**

**Maximum output: 80,000 bph**



# Innofill DRS-ZMS/S –

Computer-controlled, pressure filling system with filling level probes as purging tubes



The world's first computer-controlled, short-tube filling system for low-oxygen bottling of beer in PET.

**Low CO<sub>2</sub> consumption. No vacuum in the bottles.**

Patented purging process with fast gas replacement.

**Uses up to 70% less CO<sub>2</sub> versus conventional short-tube systems.**



Switchable to glass bottling with multiple evacuation and CO<sub>2</sub> purging at the click of a mouse.

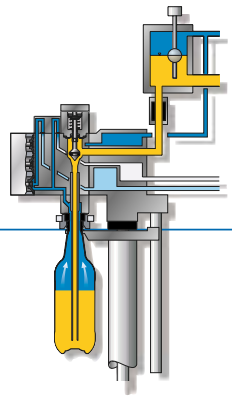
**Ideal for a wide range of bottle types and with total freedom for the future.**



**Maximum output: 80,000 bph**

## Innofill DRF/DVF –

Computer-controlled, long-tube filling system  
with filling level probes (DRF) or volumetric filling (DVF)



Innofill DRF: A computer-controlled pressure filling system equipped with long filling tubes for low-oxygen, gentle, bottom-up filling of beer in both glass and PET bottles. Flexible application capabilities. One filling system for both container types.

**Ideal process values completely without pre-evacuation and CO<sub>2</sub> purging.**

You save money and gain on product quality!

Innofill DVF: A computer-controlled, pressure filling system equipped with electromagnetic induction flowmetering for volumetric filling.

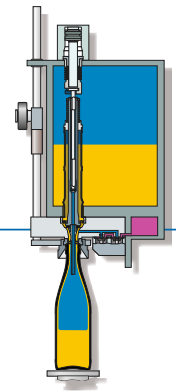
**Product savings.**

Predestined for low-oxygen filling of large-size plastic bottles while adhering to best possible process values and attaining extremely low CO<sub>2</sub> consumption.

**Maximum output: 80,000 bph**



# Innofill DPG-ZMS – Pneumatically controlled, pressure filling system



System-optimized, modern filling system for low-oxygen bottling of beer in glass bottles.

**Easy changeover to other bottle types.**

Filling system with no mechanical controls.  
Pneumatic cylinders for evacuating, purging, pressurizing, and filling.

**Only a few wear parts. Easy to maintain.**

**Long service life. Rugged and reliable.**

**Low CO<sub>2</sub> consumption due to double-volume purging (ZMS).**

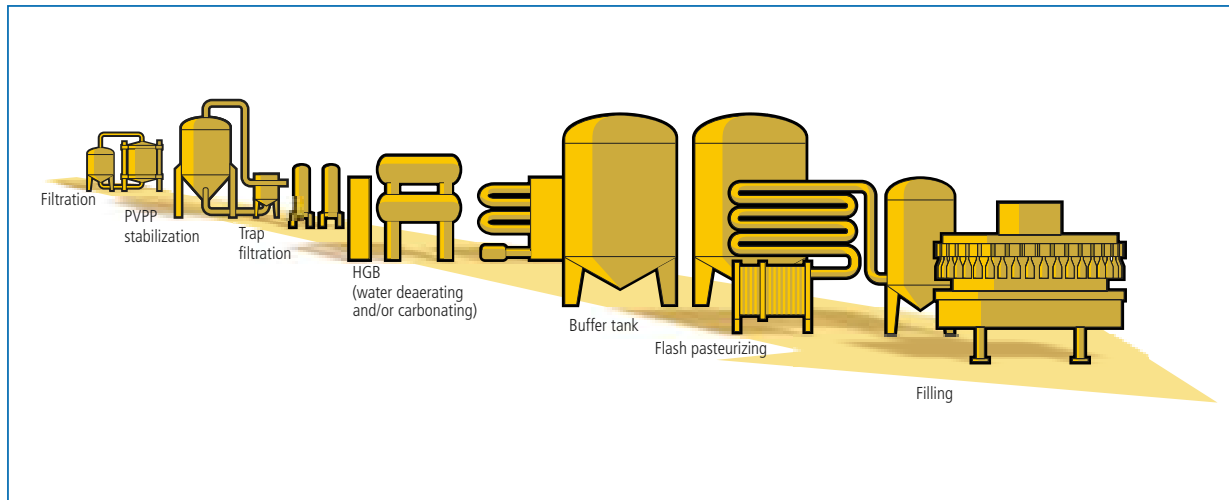
**Hygienically designed sealing engineering.**

**Maximum output: 80,000 bph**



# Core Competence for Your Branch of Industry –

KHS offers you even more when it comes to bottling beer



## Process engineering for beer

KHS plans, produces, and, on request, implements turnkey systems for the entire process engineering for beer handling.

From water treatment through beer filtration, carbonating, blending, flash pasteurizing, and sterile filtration up to and including extensive CIP technology for all stations.



## Rinsing technology

If you decide in favor of KHS filling technology, you should also do the same when it comes to rinsing technology. KHS offers you the ideal, interface-free enhancement to your filling line. All from one source.



## Ultra-clean filling

KHS solutions for ultra-clean filling under maximum hygienic conditions. Get in touch with us.



### **Would you like to fill your beer in cans?**

Then choose can filling equipment from KHS. Particularly with computer-controlled volumetric filling, KHS has set new standards in canning beer worldwide.

### **Keeping caps on**

Regardless of how you would like to cap your bottles, KHS has the right capper available for you. Integrated in the filler block. Servo screw cappers, mechanical screw cappers, and crowners.



### **KHS Till – the keg specialists**

Proven, ultra-modern keg racking systems. Wherever beer is racked in kegs, KHS Till is involved. Two out of three draft beers worldwide are tapped from KHS Till racked kegs.

**Our specialists, product information brochures, and the Internet at [www.khs.com](http://www.khs.com) are available to provide you further information. Get in touch with us.**

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