



Filling and Packaging – Worldwide.

Innofill Core Competence for Your Branch of Industry



Filling Systems
for Juice, Milk, and
Still Water

KHS Filling Systems

For juice, milk, still water, and other non-carbonated beverages

They are being talked about more and more – the new cold and new-age drinks made of juice, milk, and non-carbonated water mixed with pulp, fibers, cereals, and other solids. They are healthy and taste good. However, very special techniques are often needed to bottle these products. KHS has developed and successfully implemented these techniques.

To superior perfection. With perfect results.



For hot and cold filling in both glass and plastic bottles. For oxygen-sensitive and heavily foaming products containing pulp and fibers. For non-carbonated beverages with and without solids. For aseptic filling. Extremely gentle to product and flavor. Including complete process engineering equipment. Made to order. Free of interfaces. From one source.

All based on decades of experience and extensive know-how. Optimum, reliable, effective, and economical solutions to all your bottling tasks.

Absolute safety for your product quality.

Take advantage of KHS' vast competence potential.





Compelling Specialists and All-purpose Machines in the Filling Sector!

Innofill NV

Volumetric, free-flow filling system for pressureless, drip-free bottling of non-carbonated beverages in plastic bottles.



Innofill NRF/NVF

Long tube filling system for oxygen-sensitive and heavily foaming products containing pulp and fibers. Optionally in glass or plastic bottles.



Innofill NMG

Mechanical filling system for still water and other non-carbonated products without solids.



Innofill NRS

Free-flow filling system with retractable filling level probes.



Innofill DNRF/DNVF

All-purpose filling systems for combined filling of carbonated and non-carbonated beverages in glass and PET bottles. With and without pulp/fibers/cereals.



Specialist or All-purpose –

Efficient centers for filling juices, milk, and still beverages



The modern design of the highly transparent machine enclosure is captivating. The performance is compelling! At up to 80,000 bottles/h. Hot or cold filling. With pulp, fibers, cereals. Gentle to products. Preserves flavor. Highly hygienic. Aseptic on request.

Flexibly implementable for your products in glass and PET containers.

Total lightness – the transparent machine housing from KHS





Product circulation for hot filling.
Constant product temperatures maintained even during production interruptions.
No product loss.

Servo drives for the entire filler zone.
No joint shafts. No wearing parts.
Low-maintenance.

Filling valves with only a few mechanical parts.
Little servicing effort. Long service life.

Format parts for PET bottle neck handling or glass bottles. Infeed disk instead of infeed screw.
Great flexibility in the range of applications.
Infeed disk requires no changeover when switching to other container sizes.



PC-based machine information system with easy-to-use operator prompting for central control.
Direct access to all current statuses and process data. Level of information always up to date.
Optimum man-machine dialog.

And Everything for Perfect Hygiene –

Well thought-out details create best prerequisites



Infeed disk instead of infeed screw for plastic bottles.

Great flexibility with regard to bottle sizes and shapes – no changeover work for glass and PET bottles.

Change parts for glass or PET bottles.

Wear-resistant. Hygienic, simple, easy-to-clean design.

Membrane technology for all filling valves.

Aseptic sealing systems and membranes throughout all product and gas passages.

Oil-free operation lifting elements.



**Lubricant-free. Maintenance-free.
Hygienic through and through.**

Freestanding machine enclosure.

Completely glassed-enclosed rinser-filler-capper block.

High transparency.

Complete runoff of cleaning media.

Hygienic safety at its best.

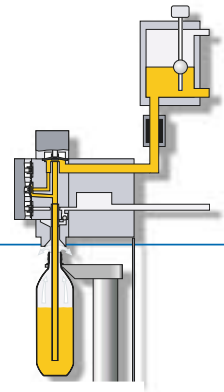
Exterior sanitizing of the filler block. Foam and flushoff cleaning at predefined time intervals.

Top-level spotless cleanliness.



Innofill NRF and NVF –

Long tube filling systems designed especially for oxygen-sensitive and heavily foaming products containing pulp and fibers.



Bottom-up, low-foam filling with lowest possible oxygen pickup.

Gentlest possible product handling. No loss of flavor. No plug formation in bottle necks. Predestined for pulp, fibers, and cereals and heavily foaming beverages. Ideal for aseptic filling.

Innofill NRF: Filling tube with integrated filling level probe for glass and plastic bottles.

Innofill NVF: Filling system with volumetric flowmetering for plastic bottles.

Exact filling levels/volumes. Product savings.

Computer-controlled, pneumatic normal pressure filling systems for low-oxygen, hot and cold filling.

No contact between filling valves and bottle mouths. Increased microbiological safety.

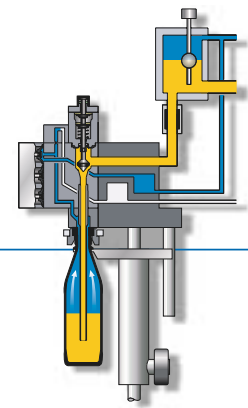
Great flexibility through multipurpose capabilities for a widest range of products and containers.

Output: Up to 80,000 bph



Innofill DNRF/DNVF –

All-purpose filling systems for hot and cold filling of carbonated and non-carbonated beverages with and without solids in glass and PET bottles



Computer-controlled, pneumatic filling system for combined pressure and normal pressure filling of glass (DNRF) and plastic bottles (DNVF).

Great flexibility. Fast return on investment. Future proof.

Innofill DNVF: Volumetric filling system using electromagnetic induction flowmetering.

Innofill DNRF: Long tube filling system with integrated filling level probes.

Exact filling levels/volumes. Product savings.

Bottom-up, low-foam filling with lowest possible oxygen pickup.

Preserves flavor. Gentle to products. No plug formation in bottle necks. Suitable especially for beverages containing pulp, fibers, and cereals.

No contact between filling valves and bottle mouths for non-carbonated products.

Maximum microbiological safety. Also ideal for aseptic filling.

Push-of-a-button switchover from normal pressure to pressure filling.

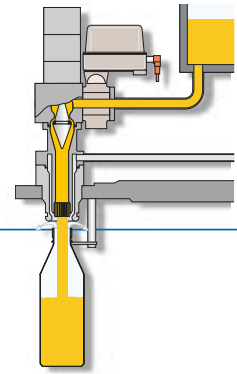
Exceptionally easy-to-operate filling method equipped to meet all market trends.

Output: Up to 80,000 bph



Innofill NV –

Filling system designed especially for filling non-carbonated beverages of various viscosities in plastic bottles



Volumetric, free-flow filling system for pressureless bottling of non-carbonated beverages with or without pulp, fibers, or cereals.

Ideal for mineral water, juices, milk, and yogurt drinks as well as new-age products such as wellness beverages, iced tea, soy, or Aloe vera beverages.

Computer-controlled, pneumatic normal pressure filling system equipped with electromagnetic induction flowmetering.

No overfilling. Noticeable product savings. Switchable to other bottle sizes at the push of a button.

Non-contact, drip-free filling process. No sealing or pressing of bottle mouths. Gas lock at product outlet.

Maximum microbiological safety. Perfect for aseptic filling.

Volumetric filling or by-weight filling.

Free-flow filling – hot, cold, aseptic.

All are possible!

Variable filling speeds for a noticeably faster filling process.

Simple, hygienic design. Low-maintenance.

Output: Up to 60,000 bph

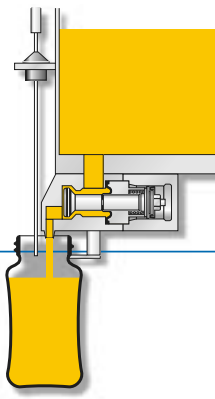


Innofill NMG –

Mechanical, normal pressure filling system for non-carbonated products without solids

Innofill NRS –

Filling system for hot or cold filling of non-carbonated beverages in plastic or glass bottles



Filling levels are determined by the return gas tube and gas lock.

Product savings through exact filling levels.

Simple design. Few moving parts inside the filling valves. Rugged, reliable filling system for glass and PET containers.

High machine availability.

Low wear and servicing costs.

Computer-controlled, pneumatic normal pressure filling system with retractable filling level probes.

Central filling level adjustment for high machine availability and filling accuracy. Short conversion time required for product and container changeover.

No lifting elements.

Long service life. Low-maintenance.

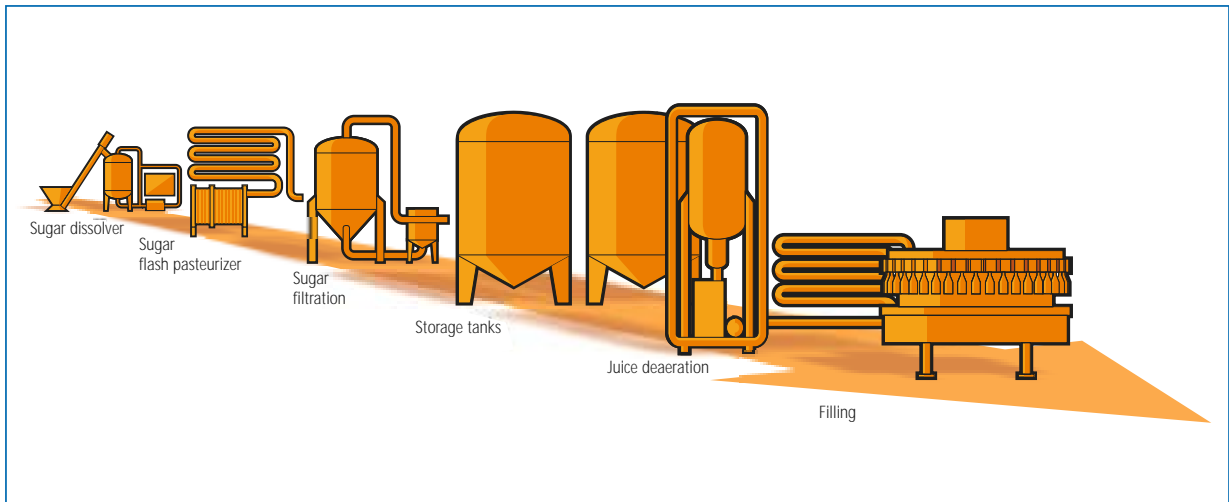
No wear parts.

Output: Up to 80,000 bph



Core Competence for Your Branch of Industry –

KHS offers you even more when it comes to filling
juices, milk, and still water



Processing engineering for juice, new-age, and non-carbonated beverages.

KHS will plan and implement – also turnkey if desired – the entire processing engineering needed to fill your beverages. This includes analysis of the entire process, design, and construction of the process components as compact units, optimum integration of peripherals of the bottling line without interfaces, engineering, and installation. Profit from our competence.

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.



Capping equipment – perfect technology for all capping tasks.

Be it a servo screw capper, mechanical screw capper, or crowner, KHS offers you the right machine. Integrated in the filler block. One perfect unit.



Would you like to fill your beverages in cans?

Then rely on the experience, competence, and superior can filling equipment from KHS.

Ultra-clean or aseptic wet and dry sterilization

KHS also offers you all the equipment you need to fill your products very hygienically or aseptically. Including know-how, experience, and processing engineering.

From the specialists at KHS, you will learn all there is to know about aseptic wet and dry sterilization, glass isolators, controlled airflows, and defined sanitizing and disinfection cycles for filling line hygiene.

Our specialists, product information brochures, and the Internet at www.khs.com are available to provide you further information. Get in touch with us.



**KHS Maschinen- und
Anlagenbau Aktiengesellschaft**

Juchostrasse 20
D-44143 Dortmund, Germany

Tel +49 (231) 569-0
Fax +49 (231) 569-1541
E-mail info@khs.com

Planiger Strasse 139-147
D-55543 Bad Kreuznach, Germany

Tel +49 (671) 852-0
Fax +49 (671) 852-2411
E-mail info@khs.com

www.khs.com



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