

Gravity filler for liquids

Designed for Accurate and Hygienic Filling of Thick and Semi Solid Products

VORMEK

Innovation based company Machinery
Manufacturing Company by the Brand Name of Vormek



The most reliable designer and manufacturer in the field of various tray sealer packaging machines, vacuum chamber, as well as manufacturer of thermoforming packaging machines and various fillers with high quality and advanced technology level

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Machine Operating Mechanism:

Why Vormek's Liquid filler machine?

In Vormek, instead of relying on standard templates, each machine is designed based on actual production conditions, the properties of the materials forming the product, the fabric, and the expected capacity, and is redefined specifically.

This gravity filler is designed with important features in such a way that it can precisely meet the producer's needs, including compatibility with the type and fabric of the liquid, precision in filling with minimal tolerance, maintaining production speed, and the possibility of fast and hygienic cleaning.



By ISO 9001 Certificate
in the field of Packaging
Machine Manufacturing

Successfully Achieved CE Certification
in the field of Packaging
Machine Manufacturing from Europe



Main Tank: Double-walled design with the option to add a mixer. Leak-proof nozzles with sensors: Appropriate sealing for nozzles and gradual filling after detecting the correct position of the container.

Smart Weighing System: Containers are filled up to 90% first with high accuracy, then gradually controlled to reach the exact volume. This machine can be offered in **three ways**:

- Using a control valve and a weighing control system via a load cell.
- Using a cylinder and piston system for more precise control.
- Using a timer and product flow rate control during filling.

Precise Coordination of Movements, Timing, and Operation: Smart PLC controls all components.

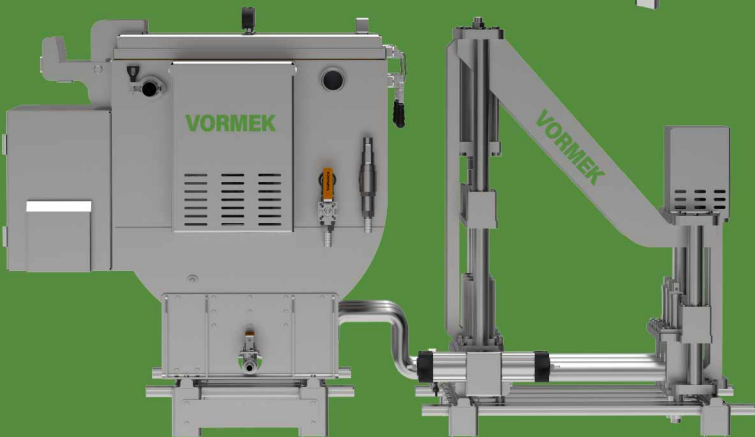
Customizable Configuration: Ability to design multi-nozzle systems and various capacities based on production needs and customer efficiency.

This machine is the best choice for filling thin liquids, including:

- Mineral and beverage water
- Milk, fermented and flavored drinks
- Herbal and pharmaceutical extracts
- Diluted disinfectant and medicinal solutions
- Vinegar, lemon water, and light food essences

The most important advantages of this machine

- Reducing dependency on human labor and increasing production speed
- Maintaining hygiene and preventing contamination
- High precision and reducing product defects due to accurate volume settings
- Compatibility with various containers without the need for tools or additional parts
- Ability to adjust quickly with no need for continuous adjustments during operation
- Easy access for cleaning and maintenance with low microbial load
- Durable design, readily available spare parts, and timely technical support that reduce cost and downtime

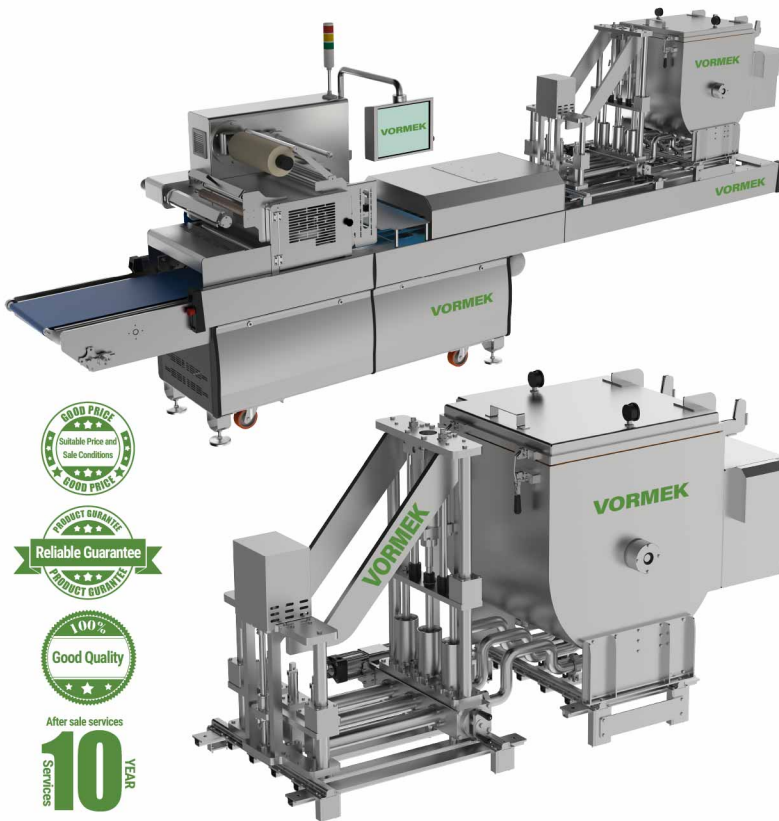


Choosing Vormek means:

- Opting for the Leading Brand
- Embracing Technology
- Ensuring Quality
- Fostering Innovation
- Guaranteeing Success
- Implementing Smart Solutions

Items such as:

Maintaining freshness, extending product shelf life, preserving taste and nutritional value of the product, as well as hygiene and longevity, preventing spoilage and oxidation of products, are the most important goals of using these machines.



Gravity Filling Machine

The gravity liquid filling machine is a precise, hygienic, and reliable solution for packaging products with low viscosity such as water, liquid dairy products, flavored beverages, extracts, and light food solutions.

This machine is especially designed for production lines in the food, dairy, pharmaceutical, and chemical industries, and by utilizing modern technology and engineered structure, it guarantees a durable and fully automated performance

Key Features of the Machine:

- Adjustable to the height and opening dimensions of containers, compatible with various shapes of plastic containers.
- Automatic and precise filling without the need for operator intervention, using sensor feedback and a pneumatic system for accurate and safe operation.
- Multifunctional and flexible design with adjustable filling volume and weight.
- Durable yet lightweight body made from 304 and 316 stainless steel, resistant to corrosive liquids.
- Quick, tool-free adjustments for production line changes, reducing downtime.
- Adjustable nozzle movement and timing for fast, drip-free filling with an accuracy of ± 3 grams.
- Intelligent container management: sensors detect the exact positioning of the container, and the PLC controls the sequence and timing of the filling process.

- The capability to equip with various types of agitators to achieve uniformity and maintain the product's texture.
- The possibility of creating a double-walled container to preserve and control the product's temperature within the desired range.
- Equipped with a level control system to manage the minimum and maximum levels of materials inside the container and prevent product shortage or overflow.
- The ability to design and manufacture various types of custom nozzles suitable for the type of product, viscosity of materials, and customer process requirements, to achieve the best filling quality

Technical Specifications of the Gravity Filling Machine

Body Material

304 and 316 stainless steel with high-quality construction

Electric Current

7.5 Amp

Electrical Power

3 KW

Dimension of the Machine

Width 90 centimeters and height 120 centimeters.

Electrical components:

Use of high-quality and premium brands (Delta, Phoenix, Autronics, Siemens, Moller)

Other Products of the Company



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