

Filling machines

Arrow Series



Arrow
Series

Filling machines Arrow Series

The Arrow series machines are rotary/linear filling machines for packaging of liquid products such as water, carbonated water, carbonated beverages, juices, ice tea, beer and milk to PET, GLASS or HDPE containers of capacities ranging from 250 ml to 18.9L.

The output for the Arrow series machines ranges from 1 000 to 20 000 uph.

Electronic Advantages

PLC controller by BERNECKER collects information from the machine gauges and controls proper operation of the machine.

Communication with the operator takes place via an operator - **friendly touch screen** control panel integrated with the PLC controller to guarantee fast operating process and prevent errors.

Advanced failure diagnostics system - the machine stops and alarm message appears on the control panel screen informing about the reason for machine stoppage. That makes solving problems with the machine operation process very easy.

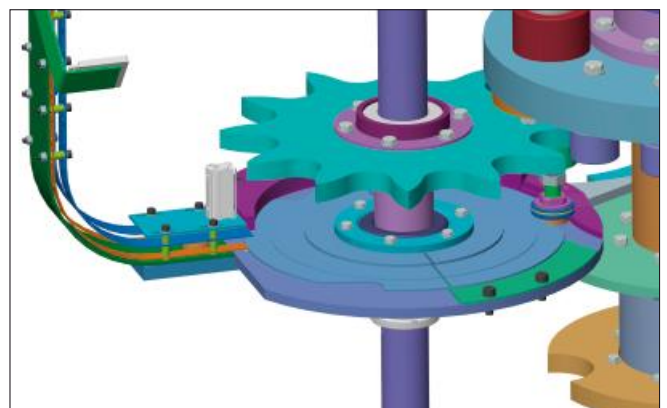
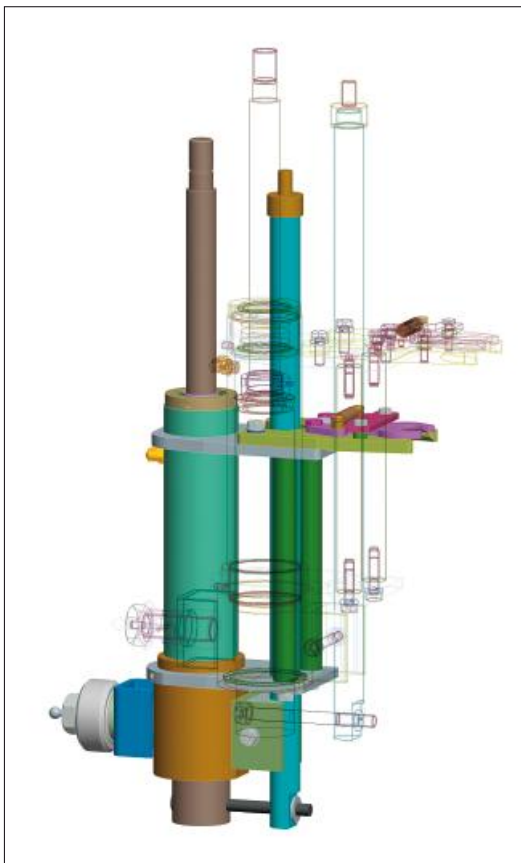


The use of high quality sensors and electronic safety systems ensure the continuous operation of the machines.

Mechanical Advantages

The bottleneck gripping used in the internal transportation system of the ARROW series machines allows for the use of various types of packaging and provides easy and quick handling of the packaging format change process.

The Pick&Place system enables precise administering of various types of caps.



The electronic filling process in the machines dedicated to the milk-based products, ARROW CLEAN with the use of the **Arrow Purity System**: Automatic interior washing and sterilization of the tank and filling valves; washing and sterilization of the clean room of the machine by means of spray-heads and adjustable nozzles; caps sterilization with the H2O2 UVC rays; air sterilization by means of a special system with HEPA filters (optional) that kills bacteria, filters and feeds the air in laminar overpressure flow to the clean room of the machine;



Multistage/automated gallon bottles washing in the ARROW 18.9L machines guarantees efficiency and high quality of the final product.

Economic Advantages

Very **low operating costs**.

Small size of the machine with concurrent gain of higher efficiency. Flexibility in the selection of formats provided by the bottleneck gripping system that shortens the time of format change and significantly increases the possibilities of their choice.

Elimination to the maximum possible extent of the necessity to replace the eroding parts (e.g. by using the highest quality type sealing).

Simplicity and high quality of the component elements execution.
The promptness of delivery of the spare parts and maintenance service.

High Quality Components

Thyssen Krupp, Festo, Apollo Flow, HEPA, Balluf, Metal Work, Moeller, Elstar, System Plast, B@RAutomation, Danfoss, Grundfoss.



Models specification

| Description | Model | ARROW PET | ARROW NC | ARROW GLASS | ARROW CLEAN | ARROW VOLUMETRIC | ARROW 18.9L | |
|-----------------------|--------------------|--|--|---------------------------------------|--------------------------------------|---|--|--|
| Suitable | | Carbonated liquids: water, soft drinks, beer. | Natural water, Non-carbonated liquids. | Natural water, carbonated liquids. | Milk liquids products, juices. | Dense product: edible oil, chemical medium. | Natural water. | |
| Personnel | | 1 | | | | | | |
| Type of filling | | Isobaric | Over-flow | Isobaric, Over-flow | Electronic | Volumetric | Gravity | |
| Number filling valves | | 12 - 72 | 9 - 72 | 12 - 72 | 9 - 72 | 9 - 72 | 1 - 3 | |
| Number capping heads | | 3 - 16 | 3 - 16 | 3 - 16 | 3 - 16 | 3 - 16 | 1 | |
| Number rinsing grabs | | 8 - 52 | 8 - 52 | 8 - 52 | 8 - 52 | – | Three phases of rinsing/ washing process | |
| Speed production bph | | 1500 - 20 000 | 1500 - 20 000 | 1500 - 20 000 | 1500 - 20 000 | 1500 - 20 000 | 200 - 600 | |
| Bottles dimensions | Bottle diameter | Ø45 - 115 mm | | | | Ø45 - 115 mm | Ø280 | |
| | Capacity Bottle | 250 ML - 2 000 ML | | | | 250 ML - 3 000 ML | 18 900 ML | |
| | Neck diameter | 28 mm - 48 mm | | | | | 48 mm - 52 mm | |
| Total Power installed | | 3,5 kW - 7,5 kW | | | | | 24 kW - 60 kW | |
| Air consumption | | 8 m ³ /h - 25 m ³ /h | | | | | 8 m ³ /h - 25 m ³ /h | |
| Water consumption | | 0,4 m ³ /h - 4 m ³ /h | | | | – | 6 m ³ /h - 20 m ³ /h | |
| Medium consumption | | 3,5 m ³ /h - 30 m ³ /h | | | | | 4 m ³ /h - 12 m ³ /h | |
| Standard equipment | | Caps feeder, Suitable for CIP, Pick and Place System | | | | | Caps feeder, Suitable for CIP | |



STM Sp z o.o.
 ul. Piaskowa 12,
 78-520 Złocieniec
 Poland
 Tel.+48 94 36 71 471
 Fax. +48 94 36 71 471
 www.stm-pack.com
 e-mail: office@stm-pack.com