



Krones filler for seasoning and table sauces

Modulfill NWJ – weighs accurately and fills cleanly

 **KRONES**

Innovative filling of seasoning and table sauces with load cell technology



The Modulfill NWJ was specifically designed for filling sauces, dressings and other viscous products. On the one hand, it determines the exact fill quantity via its load cells regardless of the product properties. And, on the other hand, it is equipped with a filling valve which has been especially developed for sauces avoiding the product to drip where it is not supposed to.

At a glance

- Precise, clean and gentle filling of sauces, dressings and spices
- Best flexibility for possible combinations of products and containers
- Available as an individual machine or integrated in a block
- Fully automatic CIP and SIP processes:
 - Highest hygienic standards
 - Low requirement of time and personnel



Modulfill NWJ checkweigher filler



Filler with load cell technology

- High-precision determination of the fill quantity with electronic load cells
- Filling thanks to special dimensions of the valve stem with hollow and cutting edge
 - Low-viscosity products (salad dressings)
 - High-viscosity products with rheological flow limit (mayonnaise or mustard)
 - Products with particles of up to 6 x 6 x 10 mm*
- Processes both glass as well as PET containers mostly with base or neck-handling
- Version in hygienic design
 - With contact-free filling valves for cold filling of sensitive products
 - With automatically positioned CIP cups for CIP cleaning and sterilisation

Field of application

Sauces, dressings and spices

Output

Up to 48,000 containers per hour

*It must generally be possible to crush the particles. In individual cases, we can check product samples to approve their suitability to be handled on this machine.



Modulfill NWJ checkweigher filler



Method of operation

The PET container is centred below the valve and weighed using load cells. Once the empty weight of the container has been determined, the filling valve is lowered to just above the container neck finish and opens up. During filling, the load cell checks the incoming product volume. The valve closes once the defined weight has been reached. The weight is checked once more after a short settling phase. The valve is only raised again shortly in front of the discharge starwheel. This ensures that only clean bottles will leave the machine.



During filling:
lowered valve



After filling:
raised valve

Product supply with viscosity-based pressure control

Interaction of product bowl and filling valve

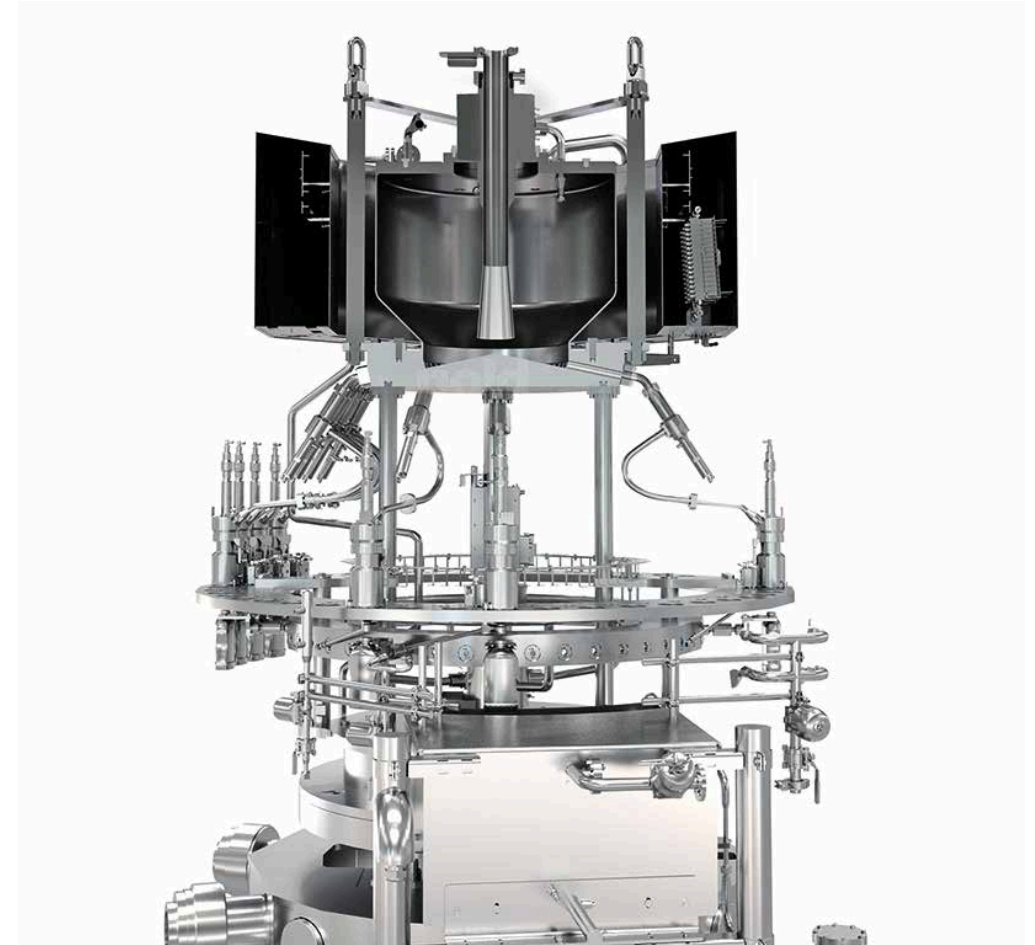


Method of operation

The product is in the rotating central bowl, the pressure of which is permanently monitored. Via the newly developed "Viscosity-Based Pressure Control" fine pressure control system either nitrogen or sterile air is added depending on the product, so that constantly defined pressure conditions prevail in the product container and thus also in the filling valve.

The fill quantity is also measured during the filling procedure depending on the required filling time. If defined time limits are exceeded or fallen below, the viscosity-based pressure control readjusts the filling pressure and thus also the flow speed.

This permanent regulation ensures the best filling precision, even if the product characteristics fluctuate with different viscosities.



Modulfill NWJ checkweigher filler

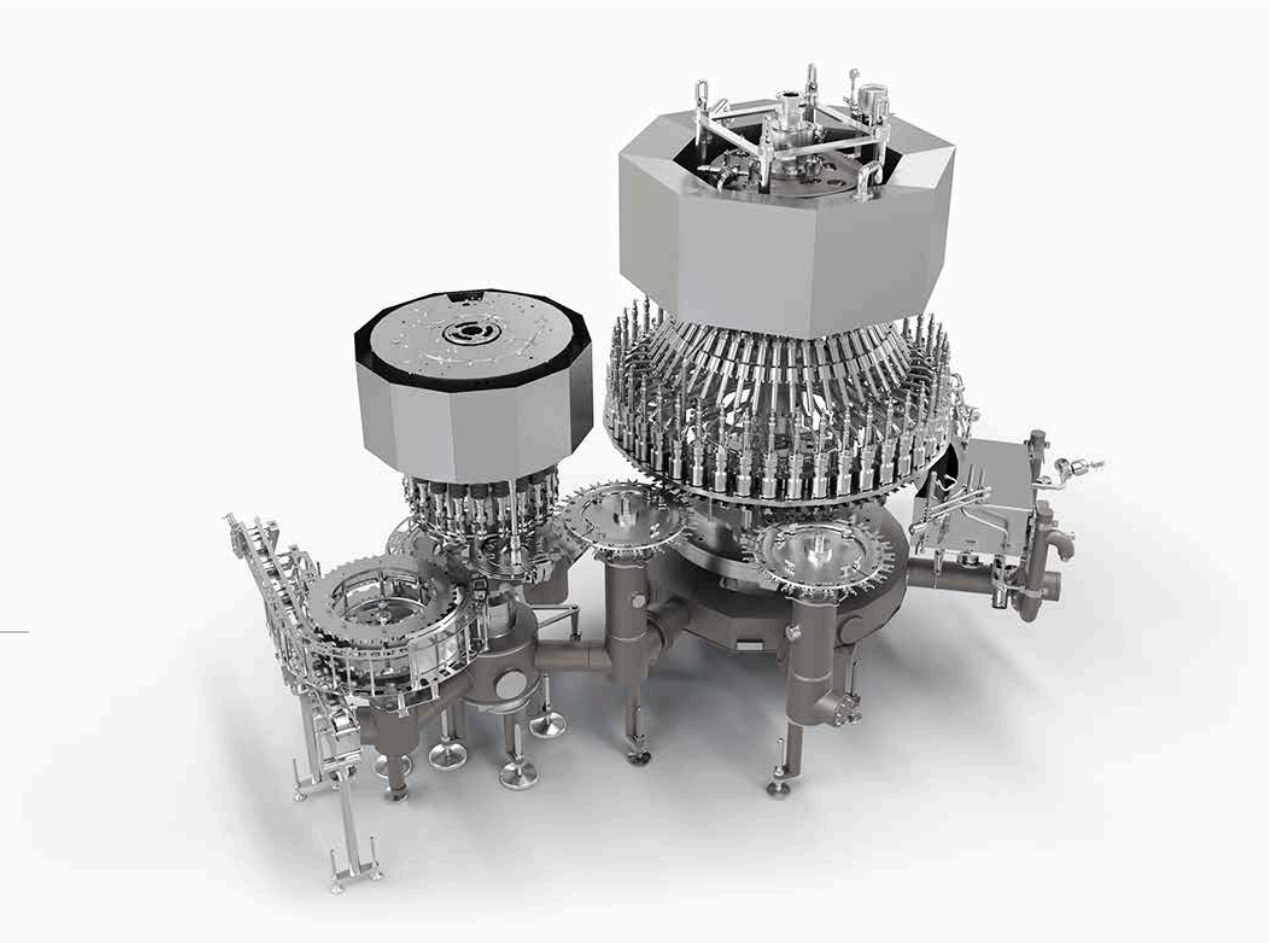
As a single filler with or without integrated capper



- Base handling of numerous different glass and PET containers (combinations possible as well)
- Integrated cappers in variants of screw capper, press-on capper, aluminium roll-on capper or crowner
- Also caps which overlap the support ledge can be applied with a Krones capper
- Can be combined with stand-alone cappers (e. g. for twist-off caps)
- Space-saving arrangement
- Can also be integrated in already existing lines

Optional equipment

Clean room design with automatic foam cleaning system for highest hygienic requirements



Modulfill NWJ checkweigher filler

Integrated in a modular rinser-filler block



- Base handling of glass and PET containers or neck handling of PET containers
- Efficient and flexible container treatment: Rinsers for almost every purpose such as for
 - dusting plastic containers with ionised air
 - reduction of microbiological contamination
 - preheating the glass containers with steam or hot water

Optional equipment

Clean room design with automatic foam cleaning system for highest hygienic requirements



Modulfill NWJ

Integrated in the blow moulder-filler block



- Both neck handling and base handling are possible (if required)
- Advantages of the blow moulder-filler block:
 - No warehousing or transport costs for finished bottles
 - No transport distances from the blow moulder to the filler and thus improved hygienic conditions
 - Small footprint

Optional equipment

- ProShape module for processing oval and other specially-shaped bottles
- Preform sterilisation module Contipure with H₂O₂ for the manufacture of containers for sensitive products



Modulfill NWJ checkweigher filler

Benefits to you



Precise fill quantities

The valves of the Modulfill NWJ are equipped with load cells. This enables the system to achieve precise fill quantities – for every product, whatever its degree of viscosity or conductivity.

Single machine or integrated in a block

An arrangement customised exactly to your requirements: The Modulfill is available as a single machine or in combination with a capper and as a block solution with rinser and blow moulder.

Different product and container combinations

The Modulfill is amazingly flexible and open for numerous combination options. It fills products with particles as well as low-viscosity and high-viscosity products into glass and PET containers.

Gentle filling process

The filling process is designed to fill particles with a size of up 6 x 6 x 10 mm without any damage.

Clean filling

The thicker the product the greater the chance that it might drip after filling. The unattractive result: Dirty containers and a dirty filler, as well as unnecessary product losses. In order to protect your production exactly from these factors, the Modulfill NWJ Neck is operating with valves specifically developed for such situations providing clean filling without any spilling.

Best hygiene conditions

Fully automatic CIP and SIP processes as well as an optional design in the clean room with automatic foam cleaning system or bottle and cap treatment ensure that the Modulfill NWJ meets even the highest hygienic requirements.

Requesting a new machine

You can easily send a request for a non-binding quotation in our [Krones.shop](#).



Everything from a single source



Training courses at the Krones Academy – trained personnel will increase your line efficiency

The multifaceted offer by the Krones Academy ranges from operation, servicing and maintenance courses through to management training. We will gladly also create your individual training programme.

KIC Krones cleaning agents make your machine shine

An immaculate production environment is essential if your product is to shine. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.

KIC Krones lubricants – for each production step

Whether for gears, chains or central lubrication systems – our greases and oils are true all-round talents. They can reach every lubrication point, protect your line and ensure gentle treatment for your products thanks to their food-grade quality.

Krones Lifecycle Service – Partner for Performance

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: The Krones LCS experts are always there to help you reaching your goals and turn your wishes into optimal LCS solutions.

High-quality components from Evoguard and Ampco

Are you looking for shut-off, separation or control valves? For hygienic or aseptic applications? Would you like to have pump technology that perfectly fits into your machines? You will find exactly what you are looking for at Evoguard and Ampco Pumps. The two Krones subsidiaries cover the entire spectrum of process technology components that you need for high-quality production.

**SOLUTIONS
BEYOND
TOMORROW**

