

Disinfection, Preparing, Cutting, Washing, Drying, Mixing, Conveying, Weighing, Packaging

Processing and packaging line for lettuce and vegetables

An automatic complete system for cutting, washing, drying, weighing and packaging lettuce and vegetables for maximum efficiency, gentle processing and high product quality – also available as a SMART version

up to 2,000 kg/h Capacity



Your benefits

- ✔ High level of automation for maximum efficiency in production and high capacities
- ✔ Available as a SMART version: communication of the machines for a consistent production flow
- ✔ Integrates high-quality machines, including the GS 20, GEWA 4000 PLUS, GEWA 5000 PLUS and K650
- ✔ Designed for gentle processing and high product quality – can be used flexibly for different products
- ✔ Efficient weighing and packaging with the integrated packaging line from GKS Packaging
- ✔ Simple operation and a low personnel requirement

Product groups



Portrait

For cutting, washing, drying and packaging up to 2,000 kg per hour

The semi-automatic lettuce processing and packaging line integrates several KRONEN machines with a solution from KRONEN's partner **GKS Packaging**. The line is used for the complete processing of the raw material to the end product packaged in bags.

The following machines or solutions are integrated:

- **Preparation:** Trimming table for 8 people
- **Cutting:** **GS 20 belt cutting machine**



- , optionally with a wide range of knives
- **Conveying: PLUS inclined conveyor belt**
- **Pre-washing: GEWA 4000 PLUS HELICAL** washing machine with dipping belt outfeed
- **Washing: GEWA 5000 PLUS HELICAL** washing machine with vibration outfeed and an optional measuring and dosing system
- **Drying: K650 drying system**
- **Further transport:** Shuttle belt with forward/reverse motion and 200 l standard trolley for buffering product
- **Weighing and packaging:** GKS Packaging solution with
 - Slope conveyor
 - Platform with multiple-head scales
 - **FLEX L packaging machine**, the bags can be optionally treated via a connection for gas flushing (MAP) and also printed
 - Outfeed belt, optionally with a metal detector
 - Rotary table for buffering



If a second product is fed into the GEWA washing machine via a second cutting machine or a second belt, for example different types of lettuce, the products are mixed at the same time by the HELICAL washing system during the washing process.

Application options and capacities:

The system is used mainly for processing cut lettuce but also for cabbage and carrots as well as partially for whole lettuce leaves or other leafy products, for example mixed lettuce, arugula/rocket or baby leaf lettuce.

The capacity depends on the product and packaging size. For example, the line processes:



- up to 1,500 kg/h of iceberg lettuce
- up to 2,000 kg/h of cabbage and carrots (cut)
- up to 350–400 kg/h of arugula/rocket and baby leaf lettuce

The line is ideal for packaging bags with a width of up to 350 mm. A **FLEX XL** can be offered as an alternative instead of the FLEX L for packaging in bags with a width of up to 500 mm.

Please note: The video below shows an alternative processing line.



Benefits



Continuous and gentle processing of high capacities

The production line handles lettuce and leafy vegetables in a continuous process and therefore requires only a small number of personnel. The communication between the SMART-version machines and the visual displays for the machine operators facilitates a reliable, constant and uninterrupted production flow. This in turn ensures high processing capacities and maximum efficiency and quality in production.



Automatic, hygienic and flexible processing

The KRONEN cutting, washing and drying machines are also designed for frequent product or recipe changes during a production shift. The belt cutting machines guarantee quick knife replacement. The washing machines fully empty in a very short time. The drums of the large centrifuges are blown dry during emptying. The hygienic design of the KRONEN machines allows all areas to be easily accessed and makes the machines easy to clean. User-friendly operation and the safety of operating personnel are guaranteed.



Complete solutions from a single source

KRONEN is a reliable partner, even when it comes to implementing automated processing lines. With a high level of planning and consulting expertise, the company implements the right solution for every customer requirement. KRONEN offers complete lines from a single source and integrates suitable machines from partners as required.

Made-to-measure solutions