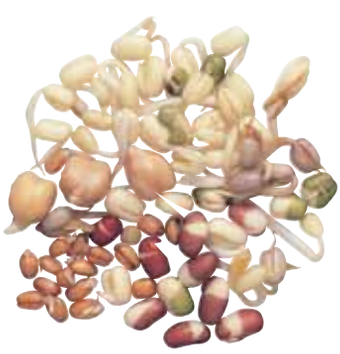
KRONEN
Nahrungsmitteltechnik

Product Range:

- **Belt cutting machines**
  GS 10, GS 18, GS 25, GS 25V, GS 30
- **Slice and wedge cutters**
  Tona S, Tona E
- **Special cutting and punching machines**
  Tona Rapid, Tona Rapid 3D, Tona Rapid XL, Multicorer, Multislicer
- **Cube and strip cutting machine** KUJ
- **Multi purpose cutting machine** SN100
- **Cabbage cutting machine** CAP 68
- **Cabbage corer** KSB
- **Dicing, wedging & shaping machine** PGW, HGW
- **Vegetable and salad washing equipment**
- **Peeling machines**
  for citrus fruit, melons, apples, potatoes, carrots, celery, etc.
- **Centrifuges**
- **Packagaging machines**
- **Special machines**
- **Complete production lines**



We develop and manufacture single and special machines as well as complete processing lines for the food processing industry.
We successfully implement production processes for you by effectively combining single machines.

KRONEN - smart solutions and convincing technology for the food processing industry!

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KRONEN
Nahrungsmitteltechnik

Washing machines
Series GEWA PLUS

Designed and constructed
for the food processing industry,
food service and commercial kitchens

Washing machines Series GEWA PLUS

GEWA5000V PLUS

Benefits of the vibration outfeed

1. Water attached to the wet product is partially eliminated through vibration and returns directly to the machine water circulation. This accelerates and simplifies product drying.
2. Depending on product, if the vibrating plate perforation has adequate hole sizes, vibration discharge can be used to product pre classification. This way, smaller particles that can fall through the holes are separated, allowing a better end product quality. Some sorting procedures could be simplified.

Expertise and convincing technology resulting in optimised washing - this applies perfectly to the KRONEN washing machines serie GEWA PLUS. Products as for example vegetables, salads, herbs and fruits can be effectively and carefully washed thanks to our rotary helical washing system.

The helical water flow can be fine tuned through the adjustment of separate sets of water nozzles. The water flow intensity can be manually regulated with three ball valves.

Depending on the GEWA machine model, you may additionally change the intensity of the helical water flow jets by running a different number of water pumps. This way you reach the optimal condition depending on product type and amount of dirt.

Product is distributed into the entire water volume of the washing tank, thanks to a rotating, helical water flow system.
This feature has decisive advantages:
1. Our machines can be built in a compact way, if compared to others of same capacity, which allows a reduction of water consumption. A smaller footprint also means less space and less cubic meter to keep at cool temperature, which means reducing costs.
2. Movement and distribution separates the product perfectly which allows better water contact during the washing procedure. This leads to a gentle and effective cleaning process.
3. The helical water flow system takes most products quickly and gently under the water surface. It is not necessary to use any mechanical devices to allow product immersion.

GEWA4000V PLUS

GEWA3800V PLUS

GEWA2600V PLUS

Power washing for persistent dirt

Benefits of the belt outfeed
Extremely delicate products or big leaves will be neatly discharged from the washing machines through a hygienically conceived belt conveyor with a stainless steel drum motor drive. Air knives are strategically placed on top and below the conveyor belt discharge to separate the product completely from the belt. Air knives are provided with air by an integrated blowing device.
For cleaning, all side guides can be tool less and quickly removed. The belt can be released by simply tilting up the drum motor. This open structure of the conveyor frame makes cleaning quick and easy.

GEWA5000B PLUS

GEWA4000B PLUS

GEWA3800B PLUS

GEWA2600B PLUS

The water flow conveys washed product to the product discharge section.

Nozzles are installed along the discharge section to allow additional product final rinsing. This treats the product with fresh water to help reducing or eliminating any chlorine and other washing additives attached to it. This final fresh water shower rinse could eventually be considered as an additional wash step.

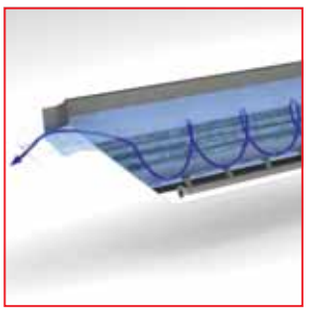
All water used here will directly be guided to the main GEWA waterflow. This way, the used water in the GEWA tank will be continuously replaced by fresh water. Excess water will overflow at a specific area at the pump tank.

All pipes are provided with easy open screw systems, which makes the mounting and dismounting easy. We supply brushes to allow mechanical cleaning of the pipes.

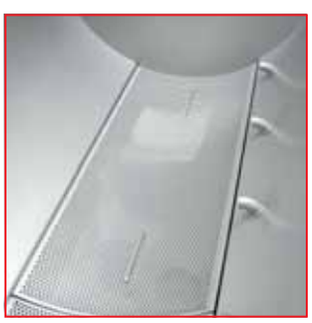
Optionally, we supply water management systems, with or without temperature adjustment, frequency converters for pump drives, connections for ice water and heat exchange by-passes. We also can supply water return systems to reduce water consumption, as well as water saving nozzles for the fresh water shower section beside other taylor made options for our customers.

Our standard – the benefits:

Compact and modular construction
The GEWA washing machines assembly is modular. This allows our machines to adapt to different production requirements and conditions, for example changing the discharge system from vibration to belt conveyor, or installing a new air bubble system on an existing machine. Mounting new optional devices to existing machines can be done by yourself or by our trained service team.



HELICAL wash system
The KRONEN HELICAL washing system permits the product to pass through the washing tank along a water spiral, which means a distance of approximately four times the length of the wash tank itself.



Sand trap
Heavy dirt particles (like small stones) and sand are removed from the product flow and settled separately in the sand trap, at the bottom of the wash tank. Thus we avoid the sand particles to return to the product flow.

Cleaning and maintenance
All pipes, pump cases, wash and pump tanks as well as covers and control panels are manufactured in AISI 304 stainless steel.

Furthermore, KRONEN Machines have been conceived caring specially about:

- simple maintenance
- easy and efficient cleaning
- low operating costs

Options and accessories at a glance

Insect and fines removal system

The insect and fines removal system is available in two versions:

- Removable, static basket like insert, for cut and not delicate products
- Motorized drum, in addition for delicate products and whole leaves. The insect removing drum can be easily lifted out of the washing tank (for example for cleaning). Opposed to other systems, KRONEN insect removal drum is conceived open and, due to this, easily accessible for cleaning and servicing. The device fulfills all industry safety regulations

Lateral fines removal drum

The lateral fines removal drum allows continuous washing with GEWA Plus machines, without ever blocking the filters on top of the pump tank - even on foamy products and products with high quantity of fines. The fines drum has a 0.5 mm opening wedge wire and filters circulating washwater, protecting the GEWA water pumps from particles. Water flows through the filter drum back to the pump tank. A scraper removes all retained particles from the drums filter surface.
This fines drum can be easily tilted over and taken out completely from its fixtures to allow cleaning. The device is driven by the same type of motor used on the insect removal drum, which simplifies spare parts inventory.

WMS (Water Management System)

The KRONEN WMS allows centrally controlled filling and emptying of the washing machines. During operation there is a fill level sensor to adjust automatically the water level in the tank. If the water level is too low, pneumatic valves will open automatically to add fresh water to the GEWA.
The standard system has two valves for filling and two valves for emptying the machine, as well as the necessary piping. WMS is operated from the GEWA control panel. We can offer special versions on customer request.

Air system

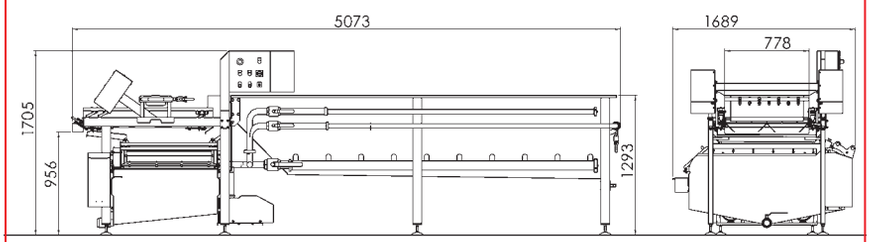
The KRONEN air system allows taking advantage of the HELICAL washing system in combination with the advantages of the floatation washing systems. Air is blown through pipes with multiple perforations. The piping can easily be installed anytime into the wash tank, creating air bubbles in the water. This combination of minimum water flow intensity and the air bubbles system leads to better overall washing quality and product care. Specially when used for delicate products, such as whole leaves or some difficult products as parsley, Lollo type lettuce and baby leaves.

Water recycling system

KRONEN water recycling system is used on washing lines consisting of at least two machines. Excess water coming from the second washing machine is supplied to the first washing machine, this way reducing significantly the overall water consumption. We do this, knowing the fact that the first tank has generally bigger concentration of dirt and germs than the second tank, enabling fresh water entering only at the second machine, renewing the whole water cycle from there.

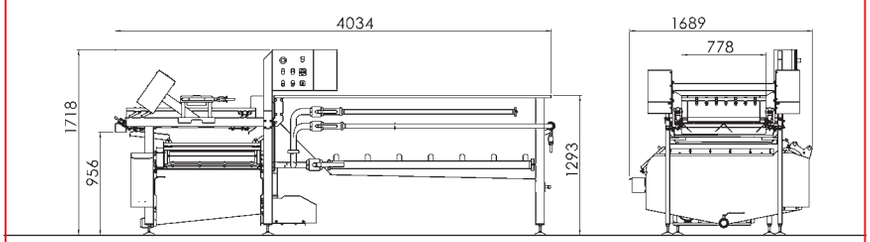
Technical specifications

GEWA5000V PLUS



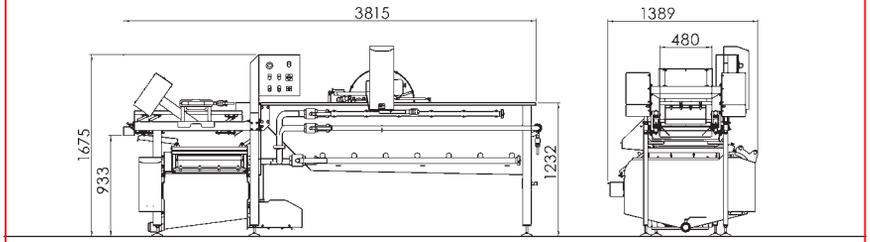
length	5073 mm
width	1689 mm
height	1705 mm
infeed / feeding height	1293 mm
discharge / outfeed height	956 mm
total power	12 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	1700 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	800 kg

GEWA4000V PLUS



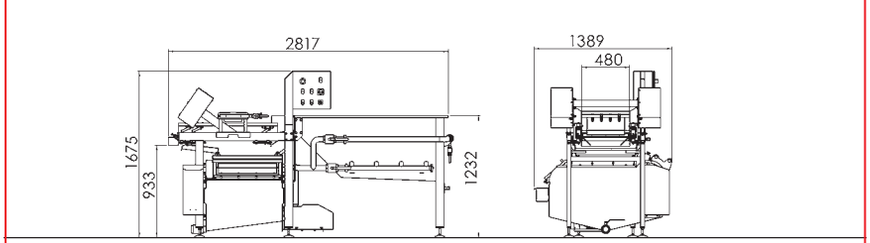
length	4034 mm
width	1689 mm
height	1718 mm
infeed / feeding height	1293 mm
discharge / outfeed height	956 mm
total power	9.2 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	1340 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	650 kg

GEWA3800V PLUS



length	3815 mm
width	1389 mm
height	1675 mm
infeed / feeding height	1232 mm
discharge / outfeed height	933 mm
total power	6.4 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	814 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	560 kg

GEWA2600V PLUS

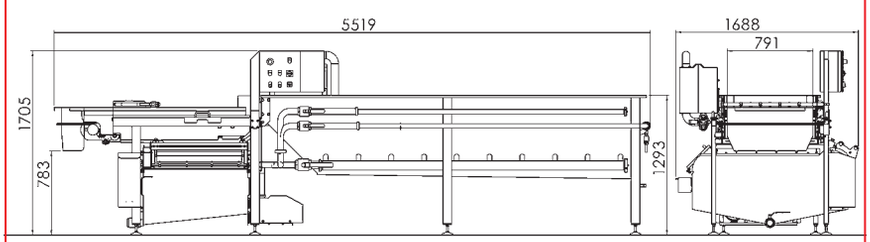


length	2817 mm
width	1389 mm
height	1675 mm
infeed / feeding height	1232 mm
discharge / outfeed height	933 mm
total power	3.6 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	606 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	450 kg

KRONEN Nahrungsmitteltechnik

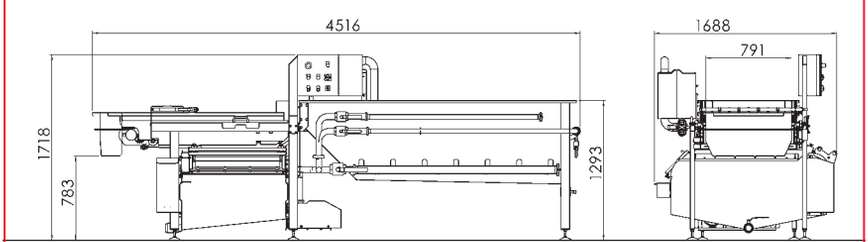
Technical specifications

GEWA5000B PLUS



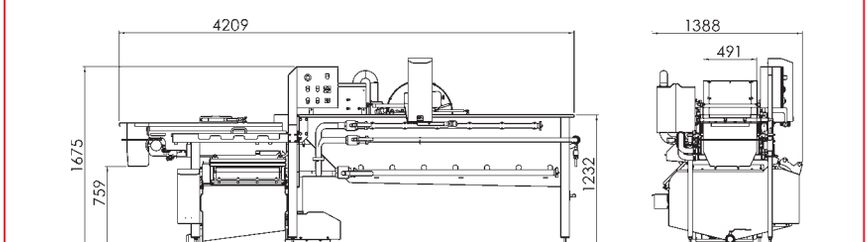
length	5519 mm
width	1688 mm
height	1705 mm
infeed / feeding height	1293 mm
discharge / outfeed height	783 mm
total power	13.3 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	1700 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	830 kg

GEWA4000B PLUS



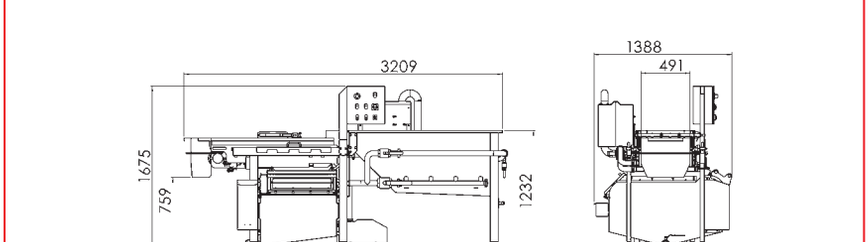
length	4516 mm
width	1688 mm
height	1718 mm
infeed / feeding height	1293 mm
discharge / outfeed height	783 mm
total power	10.5 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	1340 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	680 kg

GEWA3800B PLUS



length	4209 mm
width	1388 mm
height	1675 mm
infeed / feeding height	1232 mm
discharge / outfeed height	759 mm
total power	7.7 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	814 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	590 kg

GEWA2600B PLUS



length	3209 mm
width	1388 mm
height	1675 mm
infeed / feeding height	1232 mm
discharge / outfeed height	759 mm
total power	4.2 kW
voltage	3~400 V N/PE
frequency	50 Hz
total volume	606 l
water discharge	2x 2"
fresh water connection	2x ¾" (GEKA)
weight	480 kg