

## **Vegetable Washing Machine VWM-2500**

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## General

The VWM-2500 is designed for small and medium-sized vegetable processing companies. The machine suits perfectly with the BCM-1650 belt cutting machine, the HCB-400-TS conveyor belt and the centrifugal dryer HS-FLEX in a vegetable processing line. The product has to be thrown (manually) into the washing tank, or is transported to the washing machine on a conveyor belt. In the washing tank, the vegetables are washed very intensively after which they are transported over the vibrating sieve. Here the vegetables get an extra 'shower' with clean water by the sprinklers. The overflowing water is removed through the perforated soil to the filter tank. All the sand and vegetable leftovers are filtered out, whereupon the water is recycled to the washing tank.



*VWM-2500 in a vegetable processing line for cutting, washing and drying vegetables*

## Washing and mixing

- The machine is suitable for thoroughly washing both floating and sinking fresh-cut vegetables.
- The machine can also be used for mixing salads. The whirl and flow can be adjusted separately with butterfly valves. So the vegetables can be mixed homogeneously (only whirl) and afterward, after opening the butterfly valve for flow, transported out of the machine through the vibrating sieve conveyor.

## User-friendliness

The machine is even for uneducated employees easy to operate:

- Stainless steel switch box with on and off buttons for pump and vibrating sieve, emergency stop and main switch.
- Water level: the machine fills itself automatically with water. The fluid sensors in the filter tank control the water level permanently and supply automatically when necessary.
- All valves are stainless steel butterfly valves, which are easy to operate and can be put in any position to regulate the water flow. Also the butterfly valves will not be jammed by sand.

## **Sustainability**

- The machine is completely made out of sustainable stainless steel. All technical components are only from renowned brands.
- All technical components like the pump, vibrating motor and electrical components are in stainless steel covers. So the components are perfectly protected against water.
- The machine is completely built in our own factory, and we are proud to call it a true Dutch quality product!

## **Cleaning / hygiene**

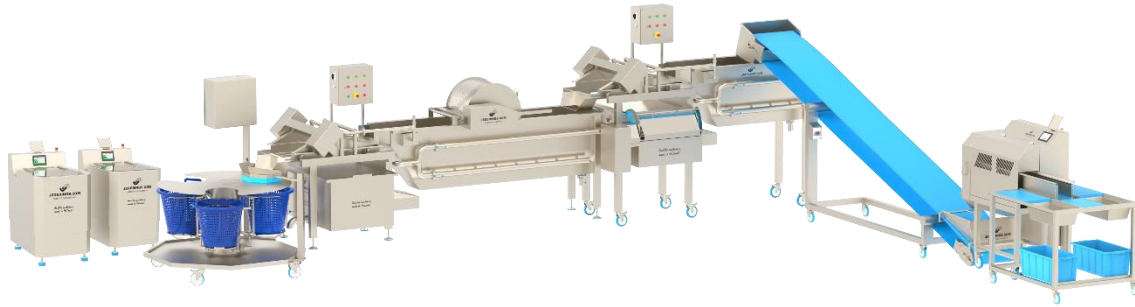
- The perforated bottom plate of the vibrating sieve can be easily dismantled with using of fast pre-tensioners.
- The screen plate and bulkheads of the filter tank can be removed easily.
- The screen plate of the washing tank can be removed easily.
- All piping parts can be dismantled very quickly - and without tools - by means of tri-clamps. They have no screw thread on the pipe-ends, and because of that they are much more hygienic than the common used dairy fittings (nut/coupling nut).
- Because of the use of tri-clamps, butterfly valve, and high quality welding, all piping and fitting complies to even the strictest demands and regulations which apply in the pharmaceutical and dairy industry.
- Because of the smoothly finished surfaces and the lack of 'dirty angles', the machine can be cleaned quickly, radically and hygienically.
- All external wiring is bundled nicely on stainless steel rods, so no dirt stays on.

## **Safety**

- When the water supply stagnates and the water level drops down below the minimum, the pump will be switched off by the low water level protection (fluid sensors), and will be switched on again when the minimum level is reached.
- Safe 24 V secondary circuit.
- Emergency switch on main switch box.

## Multi-stage washing solutions

The vegetable washing machine VWM-2500 can also be integrated into a multi-stage washing solution. This is especially useful for cleaning products with a higher dirt content because the integration of every additional washing stage will contribute to an even cleaner product and to a very low germ count. The amount of washing stages can be tailored to meet the customer's demand.



*VWM-2500 with extended legs for a 2-stage washing solution*



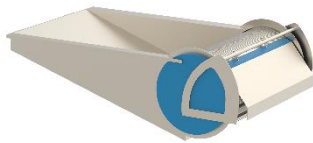
*VWM-2500 with extended legs for a 3-stage washing solution*

## Options



### Alternative perforation size vibrating sieve

The VWM-2500 comes standard with a 3 mm perforated vibrating sieve. This perforation size will filter the washing water without filtering the product that is being washed. With a larger perforation size, seeds, particles, small cubes etc. can be filtered through the sieve. We offer any perforation size from 3 - 20 mm.



### Rotating filter drum

The rotating drum filters out product that fell through the vibrating sieve and will transport the product to the side of the filter tank where it can be collected in a basket. Examples of suitable applications for the rotating filter drum are the collection of chili seeds, pumpkin seeds, small (sweet) potato cubes and many more.



### Water temperature regulation system

To wash vegetables well and to keep germ count low, it is recommended to use cold washing water. The sensor of this system detects the water temperature in the washing machine and will automatically start filling cold water once the washing water gets too warm. Please note that this system does not include a cold water tank.

## Technical data

<b>Capacity</b>	up to 1000 kg/h
<b>Electrical data</b>	3 Ph / 400 V / 50 Hz / 7.5 A*
<b>Power</b>	1.94 kW
<b>Dimensions</b>	2690 x 1000 x 1790 mm
<b>Weight</b>	361 kg (standard execution)
<b>Water capacity washing tank</b>	285 l
<b>Water capacity filter tank</b>	180 l
<b>Water connection for filling</b>	¾"
<b>Water connection for sprinkling</b>	½"

\*The VWM-2500 is electrically adaptable ensuring its compatibility with local power requirements.

## Dimensional drawing

