

Automatic carrot topper WOA-3/4



Operating principle

The 3 or 4 lane automatic carrot topper WOA-3/4 consists of an infeed hopper with singulation system, a special conveyor, aligning belts and a knife platform. The conveyor is made of aluminum trays, which are mounted on heavy duty drive belts on both sides of the machine. Mounted above the hopper is a unique driven leveling unit to ensure a single depth of carrots are delivered onto the stepped singulation elevator.

The singulation system positions the carrots in the trays. These trays then pass over the aligning belts, which are mounted on the underside of the machine. The aligning belts transport the carrots firstly to the left and then to the right, where they are topped or tailed depending on orientation.

The machine can be supplied with two type singulation systems:

Type S: carrot diameter 25 - 55 mm (1" - 2,16")

Type L: carrot diameter 40 - 85 mm (1,57" - 3,4")

Depending on the execution of the machine, it is possible to cut the carrots into pre-set pieces of minimal 40 mm

(1,57") (standard 50 mm / 2"). These knives can optionally be executed in such a way that, by pushing a button, they automatically retract.

The machine is designed for easy maintenance and cleaning /sanitation, and is equipped with threaded spindle motors which facilitates the lowering of the complete transport tray section in such a way as to give complete access to all internal aligning belts and cutting drive sections.

Capacity

The capacity is adjustable and depends on the diameter, quality and weight of the carrots and is approx. 1.000 - 5.000 kg/hour. In numbers of carrots the capacity with a filling degree of 70% will be:

Singulation belt WOA-3

Type S max. 13.860 carrots/hr.

Type L max. 12.500 carrots/hr.

Singulation belt WOA-4

Type S max. 18.500 carrots/hr.

Type L max. 16.500 carrots/hr.

Product specification

The WOA-3 processes carrots with a maximum length of 350 mm / 14" (min. 175 mm / 6,9").

The WOA-4 processes carrots with a maximum length of 250 mm / 9,8" (min. 125 mm / 5").

For a good working the carrot foliage have to be removed.

Options

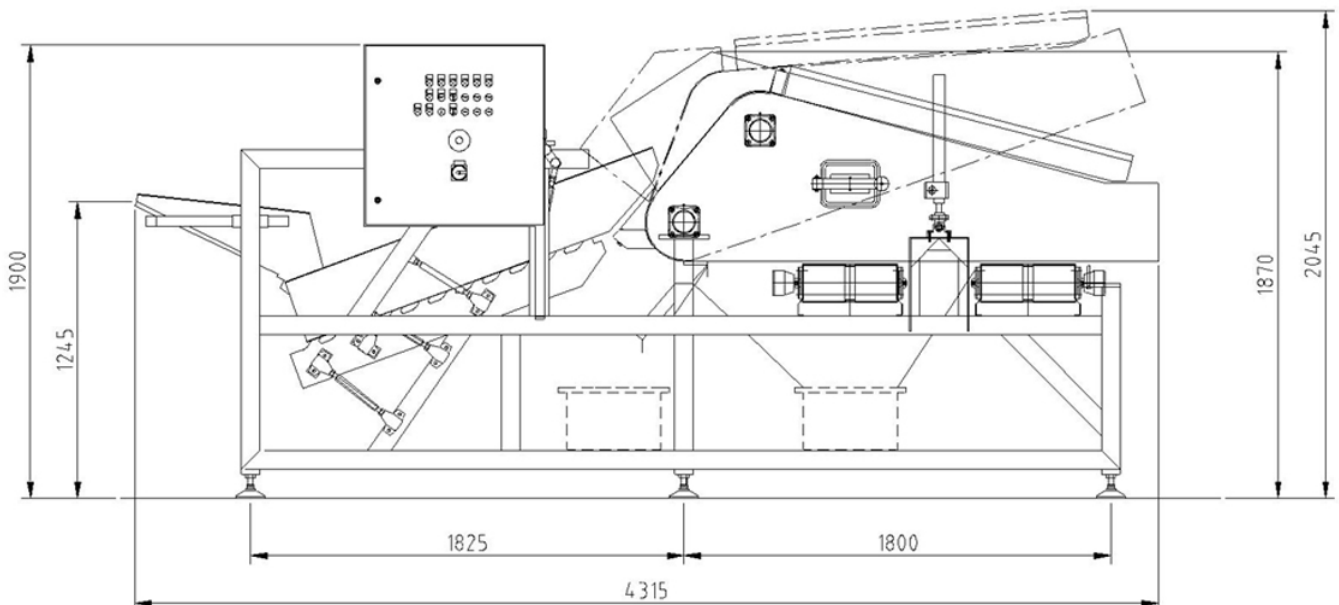
- > outfeed conveyors for end product and waste
- > frame with platform
- > automatic withdrawable knives for piece cutting

Features

- > topped and tailed waste only
- > completely automatic
- > long shelf life of the knives
- > hygienic design (easy to clean and disinfect)
- > simple operation
- > extremely durable, hard-wearing and reliable
- > ease of access for maintenance

Technical data

Voltage:	230/400 V, 3 ph, 50/60 Hz
Air pressure:	6 bar (e) (87 psi)
Total installed power:	3.55 kW
Weight:	± 2.500 kg (5,500 lbs)
Dimensions (L x W x H):	4.315 x 2.325 x 1.900 mm (2.045 mm open) / 170" x 92" x 75" (81" open)
Top size (adjustable):	16 - 26 mm (0,63" - 1")



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