Automatic carrot topper and piece cutter
WOS-2A

Operating principle

The Sormac WOS-2A carrot topper and piece cutter installation consists of an infeed elevator with a reception hopper, an infeed vibratory system, 2 V-belts and a double conveyor belt with positioning area with integrated cutting alignment. The installation is complete with electrical control panel.

The carrots are elevated onto the input vibratory system, aligned into 2 V-belts delivering the carrots between the flights of both cutting belts. The cutting belts transport the carrots over a vibrating surface which moves the carrots against an adjustable side plate (topping and tailing size). The carrots are continually moved through the topping and tailing system, the procedure is then repeated on the opposite end of the carrots. The topped and tailed carrots then pass through a knife set which cuts the carrots into pre-set sized pieces. The tops and pieces are then discharged separately.

The WOS-2A has been specifically developed for processing long carrots with a narrow diameter and is especially suited to the Imperator type carrots used for the production of baby carrots.

Capacity

The capacity of the WOS-2A is dependent of the product dimensions and is in the region of 1,5 and 3 tons/hour (3,300 - 6,600 lbs/hr).

Features

> automatic positioning of the carrots
> extremely high percentage of all carrots topped and tailed
> small waste percentage
> high capacity
> easy to install

Options

> conveyor belts for waste removal
> length and diameter graders for carrot pieces

Product specification

The WOS-2A processes carrots with a maximal diameter of 35 mm (1,38") with a length of maximal 350 mm (14").

Technical data

Voltage:	230/400 V, 3 ph, 50/60 Hz
Total installed power:	11.5 kW
Height:	1.800 mm (71")
Carrot dimensions diameter:	max. 35 mm (1,38")
Length:	max. 350 mm (14")
Top-/tail size:	5-15 mm (adjustable) (0,2" - 0,6")
Piece size:	to be specified at ordering (min. 40 mm (1,57"), dependent of the to cut carrot diameter)

Patent pending

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