

Carrot cutting- and grading line



Operating principle

For many applications it is necessary to cut carrots in a predetermined size before they can be further processed. These pieces are used e.g. for making baby carrots or other end products.

The carrots are loaded from an infeed hopper or a box into the dosing hopper. The dosing hopper doses the carrots, controlled by a level sensor, into the infeed hopper of the dosing-elevating belt. This belt controls the capacity of the line and is by means of a frequency converter adjustable. Also this dosing-elevating belt takes care of an equal filling of the process cutter.

The heart of the carrot cutting- and grading line is the Sormac process cutter type WSS. This machine cuts the carrots to a predetermined fixed length. This process can cause some undersized lengths which can be removed from the production by an additional vibratory grader or another type of length grader.

In the last step the undersized pieces that are too short for further processing can be removed from the production by an additional vibratory grader or another type length

grader.

Capacity

The capacity of the standard carrot cutting- and grading line is dependent of carrot diameter and is around 2.5 tons per hour (5,500 lbs/hr). Bigger capacities till maximum 5 tons (11,000 lbs/hr) are possible.

Scope of supply

The line is standard equipped with:

- > dosing hopper
- > elevator belt
- > process cutter type WSS
- > vibratory grader
- > platform

Options

- > box tipper or infeed hopper
- > diameter grader
- > waste- and product belts

Product specification

The line is suitable for carrots with a diameter from 10 to 25 - 30 mm.

Technical data

Capacity:	approx. 2.5 ton/hr (5,500 lbs)
Total length:	9.300 mm (366")
Width (incl. platform):	2.100 mm (83")
Height:	2.400 mm (94")
Voltage:	approx. 4 kW
Cutting length:	50 mm (2") (other lengths on customer demand)
Grading length:	> 30 mm (\pm 5 mm adjustable) / 1,18" (\pm 0,2")