

Spiral roller grader SRS



Operating principle

The Sormac spiral roller grader is used for grading peeled root products, particularly potatoes. The machine is equipped with a number of plastic rollers provided with a spiral-shaped groove. The depth and width of this groove increase towards the end of the roller. The groove is shaped in such a way that between each roller pair perfectly square openings of increasing size are formed.

Via an infeed hopper with V-channels, the product is transported to the machine. It is important for the infeed to be distributed evenly across the width of the grader. The grooves in the rollers transport the product forward until the groove openings become so big that the potato falls through them. The required gradings are set by adjusting the separation plates underneath the machine

Construction of the machine

The machine consists of a stable, fully stainless steel plate construction. The rollers are running in bearings on two sides, being driven by a common motor via a cog wheel. They consist of blue plastic with a stainless steel core. The plastic is certified for use in the food industry. Depending on the required

capacity, the machine can be equipped with 3, 4, 5 or 6 rollers. Adjustable separation plates are located underneath the machine. The location of the hoppers determines the grading size. The rollers are rather large, having an effective length of 2 metres. Maximum 5 gradings are possible. The machine also has a feeder channel with V-channels.

Capacity

The capacity is strongly determined by the grading of the infeed product. The specified capacities, therefore, are to be considered as target values and were calculated for potatoes with an average weight of 80 grams.

Features

- > low overall height
- > flexible setting of grading sizes
- > precise diameter grading
- > easy to clean

Options

- > underframe
- > built-on frequency control
- > protective cage for the top of the machine

Technical data

Type:	SRS-3	SRS-4	SRS-5	SRS-6
Voltage:	230/400V, 50/60Hz	230/400V, 50/60Hz	230/400V, 50/60Hz	230/400V, 50/60Hz
Total installed power:	1,1 KW	1,1 KW	1,1 KW	1,1 KW
Number of rollers:	3	4	5	6
Dimensions:				
(L)	2.875 mm	2.875 mm	2.875 mm	2.875 mm
(W)	915 mm	1.100 mm	1.285 mm	1.470 mm
(H)	550 mm	550 mm	550 mm	550 mm
Grading range:	35 up to max. 65 mm, adjustable*	35 up to max. 65 mm, adjustable*	35 up to max. 65 mm, adjustable*	35 up to max. 65 mm, adjustable*
Capacity(target value):	1.500 kg/h	2.250 kg/h	3.000 kg/h	3.750 kg/h

*Other grading sizes available on request

