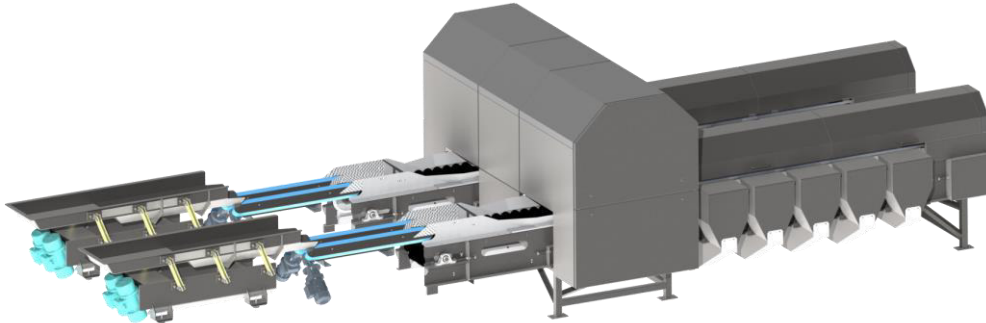


OPTICAL SORTER - SO

For optically sorting potatoes:



DESCRIPTION OPTICAL SORTER - SO

Machine specially designed, and over the years further developed, for the optical sorting of potatoes. This machine consists of an infeed and dosing unit, roller transport, camera unit and an ejection zone with a desired number of outlets. Due to the hygienic design of the machine, no contamination can occur in the camera unit. Currently, there are two types of Optical Sorters in the Marcelissen product portfolio. One is the Optical Sorter SOM, which gently pushes the product towards the right exit by using a Food-Approved plastic slider. The other is the SOL, which, by using air, blows the product into the right exit. This SOL is especially suitable for steam-peeled potatoes. Each type of Optical Sorter is available in two or four lanes.

The potatoes are being singled by means of a vibrating deck and a V-Belt. One by one the potatoes are positioned between plastic Food Grade rollers. The rollers take care of the rotation of the potato resulting in a perfect 360° scan of each and every potato. Due to the rotation of the product also the “heads” of the potato are scanned extremely accurate enabling a precise assessment and categorization of the product. Of course, our Optical Sorter is equipped with the latest Machine Vision technology.

Another important aspect of our Optical Sorters is the fact that it pushes/blows out good product instead of bad product. By doing so, no bad product will ever continue further down the line with the stream of good product.

Sorting algorithms can be programmed to focus on size, colour and rotten spots, in order to make the right sorting for our customers.

TYPE	SOM-2	SOL-2 (specially for steam-peeled potatoes)
CAPACITY	Up to 108.000 potatoes/hr*	Up to 108.000 potatoes/hr*
PRODUCT INFEEED	Continuous & singled	Continuous & singled
DIMENSIONS	Depending on the amount of exits x 2000 x 2600 mm	Depending on the amount of exits x 2000 x 2600 mm
VISION PARTNER	Ellips	Ellips
PRODUCT LENGTH	Max. 110 mm**	Max. 100 mm**
SORTING POSSIBILITIES	Unlimited	Unlimited
POWER CONSUMPTION	4,4 kW, 400V, 50/60 Hz	4,4 kW, 230/400V, 50/60 Hz
WATER CONSUMPTION	200 L	200 L
AIR CONSUMPTION	N.A.	Depending on the quality, size and amount of product.
MATERIALS	AISI 304 Stainless Steel, glass blasted. Drive components and other parts are made of normal material. Rollers made out of Food-Approved Plastics	AISI 304 Stainless Steel, glass blasted. Drive components and other parts are made of normal material. Rollers made out of Food-Approved Plastics

* Based on a speed of 15 cups/sec per lane and a 100% filling grade. Speed can vary and normal filling is approx. 80%.

** Machine can be made to sort other product dimensions upon request.