

Undersize grading drum DST



Operating principle

The Sormac small piece removal grading drum type DST consists of an horizontal cylinder manufactured of stainless steel which rotates around the horizontal-axle.

In the outer wall of the main drum, hollow plastic cups are mounted flush with the internal wall completely covering the whole drum. During the rotating movement of the drum the product slides over the inner wall and the small tops/tails and undersized pieces of carrot fall into the depressions within the internal section of the cups. All the product that falls into the cups and is undersize of the circular cups diameter, travels upward in the drum rotation and after a half a rotation the pieces fall out off the cups onto the internally mounted conveyor belt and are transported out of the drum. A set of special rotating brushes mounted above the drum assists the product removal by allowing the brush to penetrate into the cups ensuring a continual process of empty cups moving into the new product.

The diameter of the piece removal cups is determined by the volume of product to be graded. There are a large selection of grading cups available with openings of Ø 25 to Ø 80 mm (1,38" - 3,15"). To achieve

the correct cup size for small piece removal the diameter of the product also needs to be taken into consideration.

Small piece removal grading drums are mostly used for carrots, e.g. in baby carrot lines, after cutting the carrots or after peeling and polishing. The drum and frame are completely built of stainless steel and are executed with adjustable feet. Subject to capacities different drum diameters and lengths are available.

Capacity

The capacity of the piece grading drum is dependent on the length and diameter of the drum as well as the product specification. Capacities from 500 kg/hr. up till 15 ton/hr. can be supplied (1,100 - 33,000 lbs/hr).

Scope of supply

- > drum with cups and drive
- > outfeed belt
- > set of rotating brushes
- > frame with adjustable feet

Features

- > simple construction
- > completely manufactured in stainless steel
- > large variety of cup openings
- > several sizes and executions can be supplied

Product specification

The Sormac undersize grading drum is used for grading out the tops and tails in carrots and baby carrots after cutting and/or polishing. The drum is often combined with the Sormac process cutter type WSS.

Options

- > cross belt for transport of the pieces to a box or container

Technical data

	DST-200	DST-300
Voltage:	230/400 V, 3 ph, 50/60 Hz	230/400 V, 3 ph, 50/60 Hz
Total installed power:	2,57 kW	2,57 kW
Drum length:	2.000 mm (79")	3.000 mm (118")
Drum diameter:	1.000 mm (39")	1.250 mm (49")
Weight:	± 450 kg (990 lbs)	± 800 kg (1,760 lbs)
Dimensions (LxWxH):	3.500 x 1.650 x 2.350 mm (138" x 65" x 93")	4.500 x 1.900 x 2.600 mm (177" x 75" x 102")

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