

CONVEYING WHOLE LENGTH CARROTS

Design Requirements	Design Requirements
Product Type: Whole length carrots 3-Lane Conveyor	Product Type: Whole length carrots 2-Lane Conveyors
Capacity: 90,000 PPH (30,000 lb/hr/lane)	Capacity: 60,000 PPH (30,000 lb/hr/lane)
Duty: 24/7	Duty: 24/7
Conveyor Pan Size: 54"W x 10"D x 105'L	Conveyor Pan Size: 54"W x 10"D x 108'L

Customer Challenge

An agricultural business with a company history going back over 100 years was looking for a solution to increase capacity. They were currently using belts with sweep arms to feed baggers but were having issues making capacity as well as looking for equipment that would do a better job of uniformly feeding their bagging machines.

Triple/S Solution

Triple/S Dynamics recommended three Slipstick Sanitary Horizontal Motion Conveyors with a sanitary wash down finish, each Slipstick equipped with single drive modules and 7 ½ HP motors, stainless steel construction, including drives, and proportioning Eco-Slide gates which included 5 gates per lane on the 3-Lane Slipstick Conveyor and 4 gates per lane on each 2-Lane Slipstick Conveyor for a total of 31 gates in all, to distribute whole carrots to 20 bagging lines.

Advantages of the Slipstick Conveyor are they have no base frames allowing the pans to be stacked close together which was important for this application due to limited ceiling clearance. Slipstick Conveyor pans are seamless formed troughs which are much easier to clean compared to belt conveyors, with a total of three Slipsticks, each built in a configuration of 100 feet long, with the longest conveying run being 200 feet long, and the multi-position proportioning Eco-Slide gates meter carrots to the baggers and integral discharge chutes below the gates will help spread the carrots across the 8' wide bagger inlets.

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Duty: 24/7

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Design Requirements

Product Type: Whole length carrots
2-Lane Conveyors
Capacity: 60,000 PPH (30,000 lb/hr/lane)

Duty: 24/7

Conveyor Pan Size: 54"W x 10"D x 108'L

Triple/S Dynamics Proportioning Eco-Slide Gate is designed to reliably discharge from 0-100% of the product stream through a given gate opening. The gate is actuated by a rod lock air cylinder to position the UHMW gate plate at up to 7 pre-set opening positions. The opening positions are field adjustable. The Proportioning Slide Gate is provided in either Easy Clean or ECO configurations for single or multi-channel arrangements.

Triple/S and the Customer

Our customer commented "Before the Slipstick Sanitary Horizontal Motion Conveyors were installed, they could never achieve feeding the baggers evenly and their product would always build to one side of the bagger and were very pleased to see that the Slipstick Conveyor could feed evenly."

The history behind this customer and Triple/S Dynamics dates back to 1997 where they purchased their first Slipstick Conveyor and continued to add additional Slipstick Conveyors in their facilities in 1998, 1999, 2005, 2010, and 2020.

