

# CONVEYING WASHED/DEWATERED BEANS



## Design Requirements

**Product Type:** Washed/Dewatered Beans

**Capacity:** 22,000 pounds per hour

**Duty:** 24/7

**Conveyor Pan Size:** 24"W x 8"D x 74'-0"L

## Customer Challenge

A private label soup and mixed-ingredient products processing plant contacted Triple/S Dynamics looking for alternative options to convey washed beans (wet but not soaked) to twenty soak tanks. They were using drag chain conveyors. The chain with flights moved the material through the conveyor and the product was in direct contact with the chain as well as making it difficult to clean.

## Triple/S Solution

Triple/S Dynamics scheduled a customer witnessed lab test to be conducted with a list of conveying requirements provided by the customer. The customer's main concern was the washed beans sticking to the conveyor. Lintel beans and a mixture of kidney beans with bean halves were used to test. With water added to the beans in the pan, simulating a spray bar, results confirmed the beans conveyed well and the customer was very pleased with the results.

Triple/S Dynamics worked with the customer's engineering firm, designing a 24"W x 8"D x 74'-0"L Slipstick Sanitary Horizontal Motion Conveyor equipped with five Eco-Slide air operated gates. The Slipstick Sanitary Horizontal Motion Conveyor will be positioned in the middle, between two rows of ten tanks, with the gates feeding multiple soak tanks. The Slipstick Conveyor will be suspended from customer's overhead structure with the drive supported from a 21 foot tall stainless steel drive support structure due to building structure limitations. A bucket elevator will deliver the beans to the Slipstick Horizontal Motion Conveyor.

## Triple/S and the Customer

*This customer preferred the sanitary design of the Slipstick Horizontal Motion Conveyor over the Drag Chain Conveyors they previously had in their processing line. The Slipstick Conveyor provides mechanical simplicity over screws or drag conveyors, surfaces can be easily accessed for wipe down cleaning and safer conveying with no chains, screws, sprockets, rollers, idlers, or other moving parts located outside of the sealed and guarded drive unit.*