

# CONVEYING LIMESTONE/CALCIUM CARBONATE

## Design Requirements

**Product Type:** Lime-stone/Calcium Carbonate

**Capacity:** 40,000 Pounds Per Hour

**Duty:** 24/7

**Conveyor Pan Size:** 18"W x 8"D x 32' L

## Customer Challenge

A world leading company in mineral-based specialties needed a solution to replace an existing screw conveyor. Issues over the years leading up to the replacement included extreme dust generation, screw conveyor had a difficult time with large rocks over three inches causing the company to replace the conveyor every few years and the screw conveyor was located in a confined space and elevated up four to five floors in a tower.

## Triple/S Solution

Triple/S Dynamics Product Managers made a site visit to review the application and to evaluate the customers' challenges. Following the site visit, Triple/S performed a customer witnessed lab test to evaluate the effectiveness of the Slipstick conveying limestone/calcium carbonate with samples provided by the customer. Lab test results determined the product samples conveyed successfully and Triple/S Dynamics recommended a Slipstick Industrial Horizontal Motion Conveyor with 316 stainless steel pan material, drive suspended from customers structure, bolt-on covers in four foot sections, 16 gauge, mild steel in full length of the conveyor for dust containment as a solution to solve the current challenges with the screw conveyor.

Advantages the Slipstick Conveyor has over the screw conveyor is the mechanical simplicity of the conveyor requires significantly less maintenance eliminating the need to purchase new equipment every few years, highly configurable to fit in confined spaces, and the product contact pan is covered with a tight sealed cover to ensure a clean, dust-free environment.

## Triple/S and the Customer

*This customer has Triple/S Dynamics conveying equipment and density separators in various locations throughout the world dating back to 1994. This is the first Slipstick this site has employed and after recognizing several key benefits, there is ongoing discussion about its use in additional processing areas.*

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