

# CONVEYING AIR-COOLED STEEL SHOT BATCHES TO BINS



## Design Requirements

**Product Type:** Air-Cooled Steel Shot

**Capacity:** 24,000 Pounds Per Hour  
(8 Tons Per Hour)

**Duty:** 24/7

**Conveyor Pan Size:** 12"W x 12"D x 86' L

## Customer Challenge

A world leader who manufactures high-quality steel abrasives needed a solution for conveying and distribution of the varied air-cooled shot grades to designated bins within their new facility expansion. The elevated conveyor needed to be able to receive the product at an intermediate point and then convey the product one or the other direction from that midpoint to one of the ten discharge gates/locations.

Approaching spherical in shape, the shot presented a unique challenge of how to convey up to 45 feet (either direction) without product loss off the sides while clearing the pan between batches.

## Triple/S Solution

Triple/S Dynamics Product Manager reviewed the application and evaluated the customers' challenges. Within the Triple/S Dynamics' lab, testing was performed to several grades of the product to evaluate the effectiveness of the Slipstick Horizontal Motion Conveyor on the customer provided samples. The lab analysis determined the product samples conveyed and cleared the pan successfully when a slight decline was introduced to the Slipstick's pan.

Addressing the customer's midpoint infed requirement, Triple/S Dynamics designed an innovative "double decline" pan that slightly slopes downward towards either set of four pivot gates located fore or aft of the peak point. The single, reversible Slipstick HDC drive unit provides the client the functionality to direct the air-cooled steel shot to the desired discharge regardless of which side of the pan's peak.

## Triple/S and the Customer

*During the manufacturing phase, Triple/S Dynamics sent the customer photos of the completed drive and they commented "The drive looks great, real quality work. Our mechanical/fabrication contractor has installed the Slipstick at another local facility and had nothing but good to say about your product. Can't wait to get it installed here."*

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