

# Directed Feed: Conveyor System Installation Project

**TOP SHELF**  
INTEGRATED SOLUTIONS

**Customer:** North Americans Premier, Value-added Steel Processor

## System Installation

*Sales · Parts · Rental · Service  
Leasing · Fleet Management*

### KEY PROJECT POINTS

*Operational Audit – Field Survey – Layout  
Design – Controls Design – On Site  
Supervision – Weekly Project Management  
Parts & Service – Testing & Debugging*

### Executive Summary

Top shelf to help improve safety and efficiency by replacing heavy forklift traffic and handling with a direct feed conveyor system to sort and transport parts directly from presses to value added weld lines.

### Challenges

Due to acquisitions and increased sales volume, this North American Steel Processor outgrew the existing fulfillment capacity. This caused issues in safety & efficiency demands for timely delivery which affected the ability to grow profitably.



## Solution

As Top Shelf designed and installed a hinged belt system from washer to a stacked belt system to feed any one of six destination areas, installed an overhead hoist system for moving hinged belt system up and down to various levels of the stacked belt discharge conveyor system. Top Shelf designed and installed a mezzanine with energy efficient lighting underneath and accumulation and sortation conveyor on top. Top Shelf designed and installed a specialized split conveyor at weld stations.

## The Result, Return on Investment and Future Plans

Top Shelf provides ongoing spare parts to support the conveyor system & plans and performs ongoing PM Maintenance for upkeep of the system going forward.

*"The system that Top Shelf designed and installed provides us with improved safety and increased efficiency that saves us valuable time and money in our operation. Top Shelf's team approach throughout the process of design, installation & service support demonstrates their commitment to a long term partnership with Worthington Cylinders."*

*John Waizmann - Plant Engineer*



1 of 6 Bulk Accumulation Zones



Off Site Pre-Installation Testing of Hinged Belt System