



# Transfer Systems

## Solid | Wet & Mill

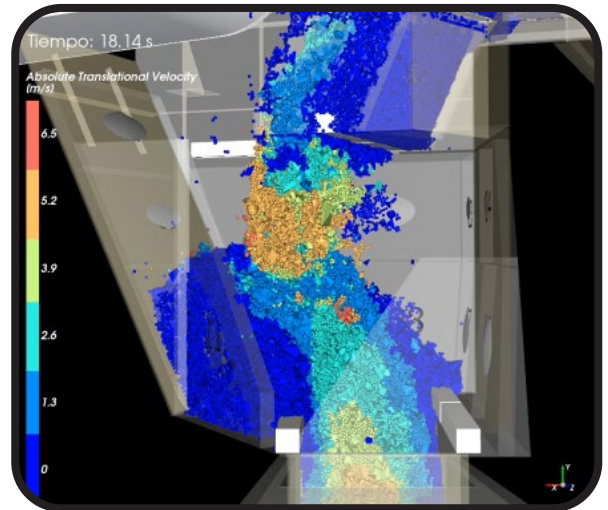
Inside any processing circuit, a Transfer Point is a system where mineral flows from one point to another. It is common to see **wear, impact,** and **general abrasion** of the structural housing. Valley Rubber focuses on the supply of products used to line these structures. Depending on the type of mineral and movement that is occurring, Valley Rubber will recommend various liner types and designs that provide the wear and performance improvement the customer needs while delivering the lowest cost of operation.

### Valley Rubber's System

- Eliminate plugging
- Significantly reduce maintenance, dust, and spillage
- Increase safety
- Reduce fall heights and impact energy
- Improve Transfer Point efficiency and flow patterns
- Adjustable beds to accommodate feed changes
- All aspects customer reviewed and approved prior to supply

### Engineering Capabilities

- Well proven engineered solutions for bulk material flow and maintenance issues including:
  - Removal of bottlenecks and choke points
  - Mitigation of material build-up
  - Significant service life improvement to wear and impact points
  - Improvements to maintenance access
- Proven product solutions for high volume screening applications including:
  - Significant service life improvements
  - Alleviation in common screen problems such as plugging and blinding
  - Improvements to screen feed and discharge chutes
- CAD software includes: Autodesk Inventor, Autodesk Recap, Batch Publish Manager, Autodesk Auto CAD & Rocky DEM



DEM Simulation Software

### Field Support - What We Offer

- Site visits to gather application information, laser scanning of the existing equipment, discussion of problems/goals with the client, photos, videos, other measurements
- Site supervision of product installation

# Problems & Solutions



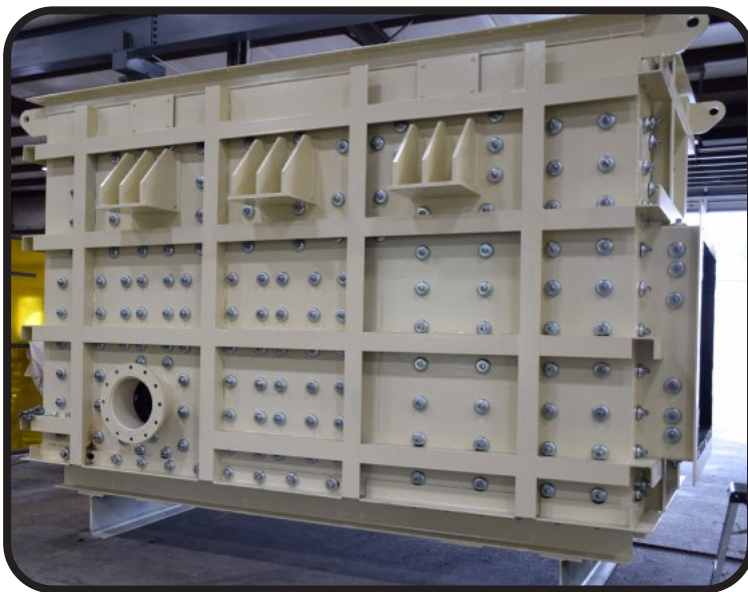
*Unsafe access point to the chute*

## Frequent Issues

- Unsafe access points
- Large distance falls to the chute walls or floor of transfer zone
- Severe dust and spillage issues
- High wear and belt damage
- Belt sag
- Noise
- Excessive maintenance



*Spillage was a costly issue with this old system.*



*In-house fabricated ST Box*

## Fabrication Capabilities

- Internal fabrication
- Quicker lead times
- Direct access to the engineers
- Project management
- Provide steel cutting, welding, fabrication, forming, protective painting and more

As material flows through chutes at discharge points, or as material moves into feed areas, Valley Rubber can utilize **Rubber Liners, Rubber-Ceramic Liners, Inflatables, Impact** and **DeadBed Bars**, along with other specialized parts. When material is introduced onto the top of conveyors, **Canoe Liners** and **Impact Side Wall Liners** are used. Whether a wet Transfer System such as **Launders** or where dry material is flowing, Valley Rubber products are always focused for use between equipment itself and always above the conveyors.

# Solids Transfer Systems

## Crushing Circuits, Conveyed Products

### Secondary Crushing Plant

For a Nevada Gold Mine, the Valley Rubber team designed and fabricated a new Transfer Chute and Head Chute and modified the existing Screen Undersize Chute and Belt System along with a complete Belt Feeders replacement.

Valley Rubber's Solution:

- Reduced noise, dust and spillage
- Stopped plugging
- Controlled abrasion
- Solved sticky material buildup

**Grand total savings: \$1,564,464 per year**



### Transfer Chute between Conveyors

The Valley Rubber team laser scanned, designed, manufactured, and provided installation support for a replacement chute system. The final system included an automated inflatable rubber lining, control panel, and new chute fabrication to support the system.

Valley Rubber's Solution:

- Reduced material build-up
- Stopped plugging



*Before Valley Rubber's system was installed*



*Valley Rubber's new system*

# Wet & Mill Transfer Systems Launderers, Mill Feed



*Pre-engineering detail of the Launder System*

## Launder System

For a Latin American operation, the Valley Rubber team designed, engineered, manufactured, and installed a system that includes a vertical chute, an ST Box reception chute, and a launder system containing magnetic rubber with a ceramic inserts liner system that will outperform the life of the original system by at least 8 times.



## Valley Rubber's Solution:

- Stable system - the issue concerning vibration was resolved by eliminating the turbulent flow; all has been converted to laminar flow
- Reduction in man-hours
- The return on investment was recovered in the first 2.5 months of operations
- Reduced noise
- Maintainability - due to the ergonomic design of the replacement parts, maintenance will be much easier

## Mill Feed Carts

An operation may experience the following: frequent liner maintenance, plugging and safety issues with their current Mill Feed Carts. At Valley Rubber, we custom design and manufacture both the Mill Feed Cart and Rubber-Ceramic Wear Liners to solve your particular issues.

## Safety is Key!

- Rapid liner changes are possible due to our bolt-in reduced weight Rubber-Ceramic Liners
- Employees can perform safer and easier maintenance with convenient access inside the chute
- Bolt-in components eliminate welding

