

A PREMIER PROVIDER OF ENGINEERED CHUTES WORLDWIDE

Benetech, Inc. applies advanced engineering technologies and years of experience to design material handling systems that upgrade your efficiency and improve safety.

By adeptly improving material flow issues, Benetech engineered transfer chutes minimize pluggage and ensure meeting of design flow requirements; minimize spillage and airborne dust; and reduce turbulence and high-impact for longer chute liner life and reduced degradation of the conveyed material. Additional benefits include optimizing belt life due to reduced loading impact and allowing longer intervals between service and maintenance.

A key component of our advanced transfer chute designs is our patented IntelliFlo® load chute with the adjustable J-Glide® discharge. IntelliFlo's design actively helps prevent generation of dust rather than just passively trying to control it. Its distinctive round chute design replaces a traditional chute's square corners, maximizing material flow while dramatically reducing dangerous and costly build-up and spillage.

The patented J-Glide® allows for adjustable, vertical loading to accommodate various fuel types and environmental conditions by changing material speed through the transfer. Adjustable horizontal loading likewise works to ensure improved center loading of the belt.



BEFORE



AFTER



BEFORE



AFTER

FEATURES

- › Less generation of dust
- › Multi-load and discharge chutes
- › Flop and splitter designs
- › Long drop heights
- › Low-headroom features
- › Customized design solutions
- › Smooth center-loading device

BENEFITS

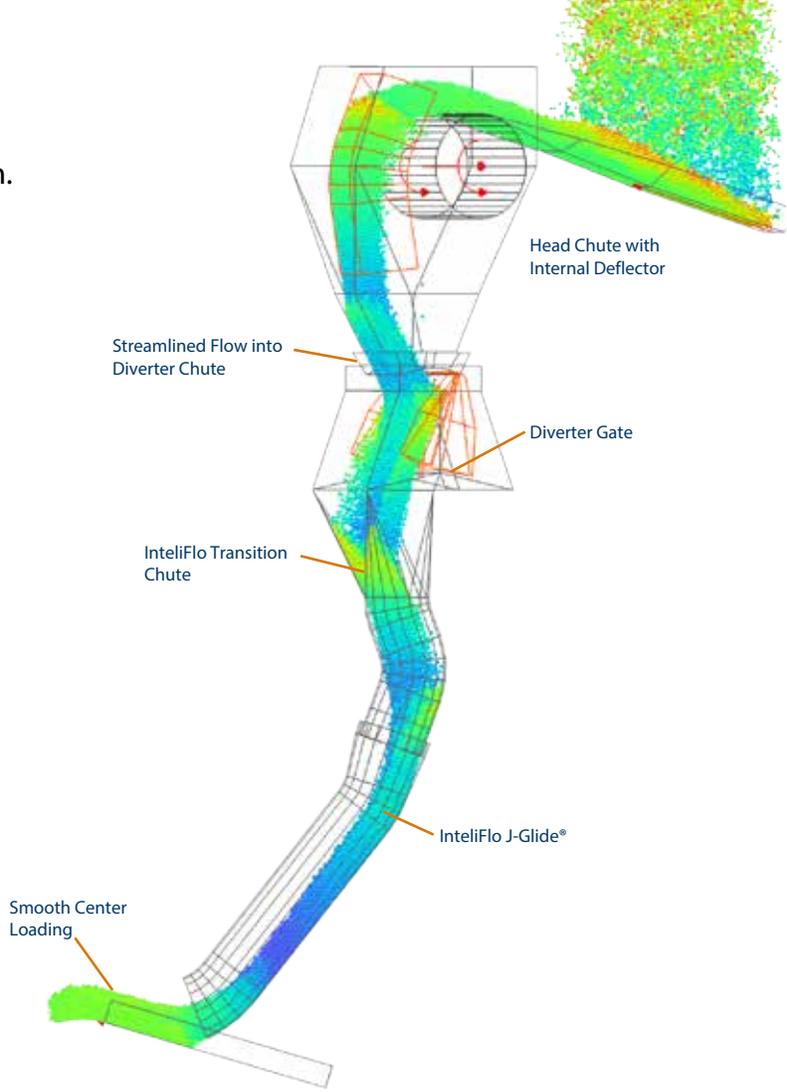
- › Reduces risk from fugitive dust emissions
- › Improves material handling process
- › Lowers operating costs
- › Controls material flow
- › Conserves more energy
- › Enhances process efficiency
- › Extends production life of belts, chutes and components

DISCRETE ELEMENT MODELING (DEM) FLOW ANALYSIS

In developing advanced transfer chutes, Benetech uses state-of-the-art DEM analysis to evaluate and optimize each material handling transfer point design. This pre-installation computer-modeling process anticipates your plant's potential downstream material flow problems and solves them before expensive mistakes interfere.

DEM chute designs are performed in-house by Benetech's highly trained and experienced chute engineers. All computer modeling also includes the latest multi-phase material flow and air flow engineering analysis based on Conveyor Equipment Manufacturers Association (CEMA) criteria. This enables precisely defined and controlled material movement from the head of the belt conveyor through discharge to the receiving conveyors. Our expert Engineering, Procurement and Construction team will design, fabricate and install a custom material handling solution to your exact requirements. Our turn-key service includes:

- › Scope Development
- › Conceptual design
- › Engineered solutions
- › Fabrication
- › Installation
- › Start up support
- › System inspection and operation training



Thorough testing and analysis is done for every chute design. Available tools include:

- › Inventor
- › DEM
- › Material Testing
- › Dust Testing
- › Performance Testing
- › Laser Surveys



EXPERIENCE MATTERS

With close to 400 successful projects and hundreds of REPEAT customers- you can have confidence that Benetech will deliver the operational improvements and benefits you are looking for. Here's what 15+ years and close to 400 chute projects gives you...

- › Extensive database of DEM parameter setting built by actual project outcomes.
- › Confidence in a company with close to 400 chute successful projects.
- › Fabrication volume providing best quality and competitive pricing.
- › Diverse and extensive material characteristic knowledge.
- › Confidence in a company capable of offering total ownership of design, fabrication, construction, training and operational performance.
- › Lower total project cost via designs that reduce costs for installation, access and ongoing maintenance.
- › Systems that lower on going operational expenses by designing for capacity needs, reduced dust, easy access for inspection and repair and longer lasting components.



BEFORE



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We're ready to support you with engineered transfer chutes and material handling systems that achieve your objectives. Find out more about our entire Total Dust Management offering including transfer point solutions, material flow enhancement, and chute inspection doors at our website, or simply email or call us today!

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