

# DILUTE PHASE PNEUMATIC CONVEYING



Bulk Material  
Handling

## INTRODUCTION

Dilute phase pneumatic conveying is a method of moving non-abrasive, non-fragile materials that have a lower bulk density. The system incorporates a high gas volume, low pressure process, entraining the materials and generally conveys one of two ways: pressure or vacuum.

In pressure conveying a high volume of low-pressure air transfers material at a high velocity. In vacuum conveying a high volume of negative-pressure air transfers material at a high speed. Common materials suitable for dilute phase pneumatic conveying are flours, resins & compounds, specialty chemicals, and more.

## OUR SOLUTIONS

Nol-Tec designs custom solutions to meet your needs. We understand that processes change, so we design flexible systems to evolve with your dynamic needs. Our designs incorporate robust components such as heavier sheet metal and stronger bulk bag unloaders increasing system life expectancy and reducing maintenance costs.



**A COST-EFFECTIVE WAY TO CONVEY NON-FRIABLE,  
NON-ABRASIVE MATERIALS**



**TRUSTED TO DELIVER®**

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## KEY BENEFITS

### User-friendly Features

- Minimal capital investment with low installation costs
- Simple design and easy operation

### Experience

- Skilled in the conveyance of a multitude of materials
- Versed in all commercially sold controls, PLC, scales, and load cells
- Trusted to Deliver™ custom system solutions resulting in long life expectancy and minimal maintenance

### Modular Testing Facility

- We have a modular testing facility to replicate your process and prove the concept prior to purchase

### Full Service Provider

- Full life cycle provider including onsite services for commissioning, training, troubleshooting and audits, along with in-house VPN and phone support

### Dilute Phase Vacuum Conveying

- Suitable for materials that tend to pack or compress under pressure
- Ideal for conveying materials that are either toxic or combustible
- Conveying from a single source to multiple destination locations or vice versa



### Dilute Phase Pressure Conveying

- Often used with non-abrasive, non-fragile materials that have a lower bulk density
- Allows flexible pipe routing
- Able to convey longer distances than vacuum conveying

## ABOUT NOL-TEC

Nol-Tec is recognized as a global leader in the design and manufacture of pneumatic conveying equipment for processing dry bulk materials. We have experience handling hundreds of different products from a wide range of industries enabling us to deliver reliable and cost-effective bulk material handling solutions.

Our in-house test lab provides clients with the confidence they need to make informed decisions about their new system design, upgrade, or retrofit. For nearly four decades we have partnered with clients to bring state-of-the-art products to the marketplace. We are committed to helping you keep your business moving.

