DENSE PHASE PNEUMATIC CONVEYING SYSTEMS

INTRODUCTION

When designing a pneumatic conveying system a common question can be either dense or dilute phase. The easy answer is it all depends on your materials’ characteristics. Dense phase uses lower velocity to make sure the delivery of the product is a gentler process and solutions typically require the use of special control systems to balance the solids to gas ratio.

With our extensive experience handling bulk materials we can help determine if dense phase is right for your process and also partner with you to design, implement, and maintenance your system into the future.

OUR SYSTEM

Our dense phase system has two unique qualities: use of air assists and a non-purge concept.

- **Air Assists** - We strategically place along the line to inject air tactically, decreasing the required motive gas pressure and flow. This increased your system reliability and reduces operational costs.

- **Non-purge concept** -material is intentionally left in the conveying line, further minimizing ill effects from high velocity like plugs or bridges. This helps prevent costly maintenance and downtime for your plant.

DENSE PHASE PNEUMATIC CONVEYING IS THE IDEAL METHOD OF TRANSFERRING ABRASIVE, FRIABLE, OR MIXED-BATCH MATERIALS.
KEY BENEFITS

Air Assist
- Increases efficiency and reliability with strategically placed Air Assists, distributing energy throughout the system.
- Prevents “back-feeding” by using high pressure manifolds.

Air Mizer
- Further reduces compressed air requirements by introducing air only when required.

Complete testing facility
- We offer an all-inclusive modular testing facility to replicate your process and prove the concept prior to purchase.

Experienced engineers
- Skilled in a multitude of material characteristics and how each are best handled.
- Versed in all commercially sold controls, PLC, scales, load cells, etc.
- Attentive employees will partner to create the best system for you resulting in a product that has high life expectancy of components with little maintenance.

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

ABOUT NOL-TEC SYSTEMS

Nol-Tec provides a full lifecycle of bulk materials handling products, solutions and services. Our approach to your unique requirements delivers durable, consistent and reliable results, whether with a new system or with support and maintenance for your existing equipment. We are a proven and knowledgeable company, with the drive and focus to give you the very best service.

With offices across the world, Nol-Tec has the experience, resources, and personnel to tackle your most challenging bulk materials handling needs. Contact us today to see how we can help deliver success.

ENGINEERING SOLUTIONS TO MEET YOUR GOALS