CONCEPT TO COMPLETION

Every pneumatic process is unique, so Smoot customizes every solution to meet your needs.

Pneumatic conveying systems and components are what we know, no matter how large or small your line. Tell us what you intend to accomplish and we'll make sure the pieces fit.

Dependable, versatile systems. Solutions that fit. It's the foundation of our business.

SERVICE CENTER
Searching for the right solution? The Smoot Service Center offers a complete line of pneumatic conveying components and spare parts. Our customer service professionals have an average of 10 years in industry application experience, each with the knowledge and expertise necessary to bring top-flight service for an incredible range of products.

- Rotary Airlock Valves
- Available in various sizes and materials with replacement parts
- Blowers and Fans
- Complete assemblies as well as replacement units
- Diverters
- Pneumatic or gravity applications
- Valves
- Knife and slide gates, ball and butterfly valves
- Bin Vents, Filter Receivers, Silos and Accessories
- Complete assemblies and parts
- Rail Car Accessories
- Airlift and manual discharge adapters
- Pneumatic Parts and Service
- For a complete aftermarket and spare parts catalog please call or visit our web site

ROTARY AIRLOCK FEEDERS

PNEUMATIC CONVEYING COMPONENTS & SPARE PARTS

Established 1960

CONCEPT TO COMPLETION

www.magnumsystems.com
Toll Free 800.748.7000 Fax 913.362.7863
1250 Seminary, Kansas City, Kansas 66103

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STANDARD MODELS

TYPE 1
OUR BASIC AIRLOCK
The Smoot Type 1 is a basic, yet sensible airlock. With a wide range of options and accessories, and multiple sizes in stock, the Type 1 will operate efficiently in your system.

TYPE 2
DESIGNED FOR MORE ABRASIVE PRODUCTS
The Smoot Type 2 airlock is designed to handle moderately abrasive materials. The Type 2 is constructed with a cast iron housing with hard chrome plating on the interior machine surfaces to supply a long lasting, yet economical airlock.

TYPE 3
SEMI-FOOD GRADE
The Smoot Type 3 airlock is built to handle your sticky or cakey materials and is ideal for semi-food grade applications. The Type 3 is constructed with an epoxy coating of the interior throat for maximum protection, a hard chrome bore, as well as 304 stainless steel rotor to provide a durable and cost-effective alternative to complete stainless steel airlocks.

TYPE 4
304 STAINLESS STEEL
The Smoot Type 4 takes stainless steel to the next level with complete 304 stainless construction. The Type 4 will handle your mildly corrosive materials while maintaining the legendary Smoot toughness.

TYPE 5
316 STAINLESS STEEL
The Smoot Type 5 is constructed with 316 stainless steel, and is designed to handle extremely corrosive materials with ease.

TYPE 6
DESIGNED FOR THE MOST ABRASIVE PRODUCTS
The Smoot Type 6 airlock is constructed to withstand the most abrasive of materials. Built with rugged NiHard steel, a closed end rotor constructed of carbon steel, and Stellite on wear surfaces the Type 6 will outlast your toughest materials.

DC-9
DUST COLLECTOR DUTY AIRLOCK
The Smoot DC-9 is a light duty airlock designed specifically for dust collection applications.

ACCESSORY EQUIPMENT

OPEN END ROTORS
Open end rotors can be used in all applications not requiring abrasion-resistant construction. In addition to the cost savings they have slightly more capacity than a closed end rotor.

CLOSED END ROTORS
Closed end rotors are best used with abrasive materials, and replaceable tip rotor vanes are required.

REDUCED CAPACITY ROTORS
The flow properties of some products require large openings and wide rotor pockets. When low feed rates are required in conjunction with the type of product, it may be necessary to reduce the rotor capacity. This can be done on open or closed end rotors.

RELIEVED VANES ROTORS
Some materials can build up on the side surfaces of the airlock, causing the airlock to freeze up after running for a short time. Relieved vanes allow the rotor to keep the build-up of material scraped off, or sheared.

OPTIONS
• Open and Closed Rotors
• Relieved Vanes
• Reduce Capacity
• Teflon Coating
• Chrome Plating
• Round and Square Flange

• High Temperature modifications
• Special Paint
• Flex Tips
• Key Way
• Abrasion Resistant Tips

VENTED INLET ADAPTERS
• Most sizes in stock

DISCHARGE ADAPTERS
• Most sizes in stock

INLET HOPPERS

NON-ADJUSTABLE FLOW PELLET VALVE
• Most sizes in stock

SHAFT AIR PURGE (SAP)
SAP uses high pressure plant air to prevent the conveyed material from coming in contact with the shaft seals, therefore extending the life of the seals.

CAVITY AIR PURGE (CAP)
This US Patented design uses low pressure air from the convey blower, and pushes the material from the cavity between the closed end shroud and housing end plates. This process dramatically reduces abrasion on the endplates and rotor.

AIR PURGE

DC-9 DUST COLLECTOR
The Smoot DC-9 is a light duty airlock designed specifically for dust collection applications.

SHAPED INLET HOPPERS

“Flexible Inlet Hoppers” provide a cost effective method to transfer airlocks at any location in the plant. They are custom designed to work with specific airlocks and can be placed anywhere in your system.
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**DUST COLLECTOR DUTY AIRLOCK**
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**ACCESSORY EQUIPMENT**
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- **DISCHARGE ADAPTERS**
- **INLET HOPPERS**
- **NON-ADJUSTABLE FLOW PELLET VALVE**
- **OPTIONS**
  - Open and Closed Rotors
  - Relieved Vanes
  - Reduced Capacity
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- **SHAFT AIR PURGE (SAP)**
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- **CAVITY AIR PURGE (CAP)**
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