

Together for Cleaner, Greener & Responsible Future

CORPORATE PROFILE

Air Pollution Control Solutions



Pneumatic Powder Handling Solutions



About StratGem



About Us

StratGem was incorporated in 2014, with a purpose to serve Industries for environmental and engineering solutions and with the aim to cater and bring the difference in the field of powder handling and air pollution control.

We are a young company with years of experience in our field. We expertise to handle complex and specialized bulk powder handling as well as air pollution control needs, whether it be short lead time, tight production space or difficult-to-handle products. This is where our team's know-how and flexibility offer its full advantage.

Stratgem is a leading company in the field of innovative air, environmental technology, powder conveying & automation in various sectors, offering its customer's custom made, application specific and high quality solutions for their industrial air and environmental issues.



Why **StratGem**?

Our portfolio includes wide range of technological solutions that can cover almost all the needs and challenges in a process industry. Our approach towards providing solution for each project is by gaining a deeper knowledge of your problems, understanding your needs and constraints. This is further backed up by vast knowledge gained through decades of experience of our leadership.

We believe that every problem is unique which cannot be offered the standardised solutions. We look at every case with a different approach. Our expertise is in assessing your specific challenge and offer a solution and design that combines the latest technologies with our project management.

Why choose **StratGem** as your Partner



**Customer
focus**



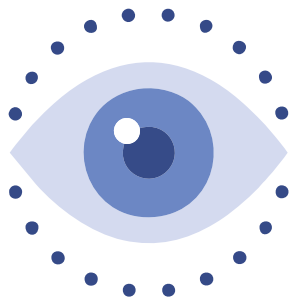
**Tailor-made
solutions**

50+

**Years of Collective
Experience**

100%

**100% On-time
Delivery**



OUR VISION

Our vision is to become an industry leader by establishing a solid reputation and thus becoming a preferred business partner for bulk solids handling solutions.



OUR MISSION

Our Mission is to constantly challenge ourselves to exceed with our client expectations, be it in terms of our product range and engineering services.



OUR VALUES

We believe in building great products and solutions! We believe the best products are those that are simple, elegant, efficient and easy to operate. We call it as product leadership.

Our Leadership



Mr. Shailesh Thakare

A Chemical engineer with a capability and passion of analysing and designing complex systems , the capacity to work over a wide range of scales, from molecular to worldwide and likes to provide sustainable solutions to the customers. An expert in environment & energy management with experience in Design, Solutions Selling, manufacturing and Supply Chain by working in various environment and energy OEMs including German MNCs. His testimonial is running installation of various Fumes and Gas Scrubbers across India. Nurturing young minds for creativity is always in his mind and making them future ready engineers is his vision.

A vivid wildlife photographer and bird enthusiast during his leisure time and pursues his hobbies whenever it's possible.



Mr. Chandrakant Patil

A Mechanical Engineer known for his pace and agile leadership. Grown to the ranks of Vice President and Business Head within a short span of time in his earlier organisation, shows his capability of managing critical business with sophistication. His Value engineering skills goes a long way in optimising cost and providing right solutions for his esteemed customers. Devoted his career in Sales and P&L of the business, has ability to forecast goals based on Analytics and Data. His resilience during tough times is what we all pitch for and he truly believes in "Tough times never last but tough people DO " .

A food connoisseur, a go out person for a long drive.



Mr. Anish Joseph

A Mechanical Engineer with hands-on experience with machines and processes of industries as he started his career in commissioning, troubleshooting and process improvements before taking over Business of Pneumatic Powder Handling Solutions. He held position of Vice President and Business Head in his earlier organisation. A Business Leader with Field expertise, designing and Selling complex Solutions for various sectors makes him apart. His Passion for Automation of bulk powder handling processes makes him a go to man for any improvements. A Strategic and critical thinker and believes in making a decision rather than just thinking. His empathy towards teammates is what he values more as a management person and nurtured this during his leadership roles.

Having visited around 25 countries his passion lies in visiting new and unexplored countries.

PNEUMATIC CONVEYING TECHNOLOGIES

A pneumatic conveying system consists of a air source, typically an air feed device, a conveying pipeline, and a receiver to deliver the conveyed material and filter the dust. Every powder conveying system is made up of pipes called transportation lines that carry a material mixture and a stream of air. These materials can be easily transported to various destinations via pipelines using a high-velocity air flow. Air pressure moves products in tubes/pipes, providing additional vertical versatility.

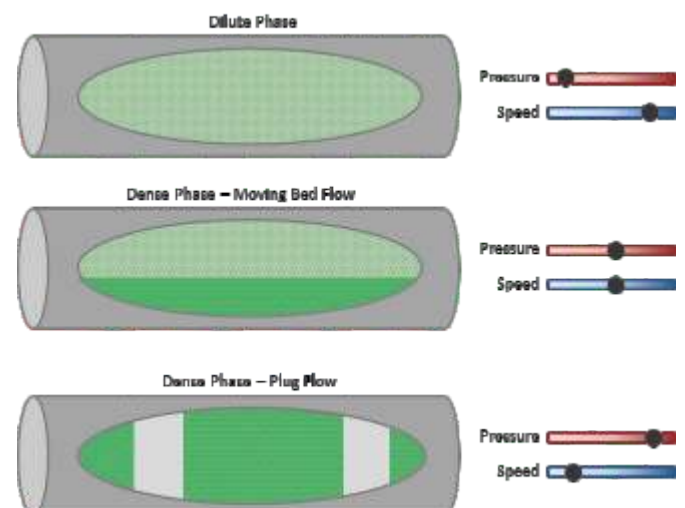
A pneumatic transportation system is defined by pressure or vacuum systems and transports material using either diluted or dense phase technology. Stratgem, a pneumatic conveying manufacturer, offers solutions that will safely move your powder or bulk material from one location to another in the most ergonomic and contained manner possible.

Pneumatic conveying systems are classified into two types.

- **Dense phase conveying system.**
- **Lean - Dilute phase conveying system.**

Each type can move materials using either a vacuum or a pressure method.

These types can be distinguished by their operating principles, which refer to the type of material that can be moved and the source of airflow.



PNEUMATIC CONVEYING TECHNOLOGIES

Dense phase conveying

Dense phase conveying system, as the name implies, is primarily used when the material transported is important in terms of particle size degradation. This is used for abrasive, pellet-sized, or granular powders. This system uses compressed air to transport materials at high pressure and low velocity from a pressure vessel through a pipeline to a single or multiple destinations (feeding points), where the product and the air are separated by a filter.



In most cases, abrasive, friable, or blended materials require a dense phase conveying system, and the delivery process for the products being conveyed is quite gentle. The main advantage is that the material is transported at a slow speed across the pipeline, resulting in minimal wear and tear, material degradation, and changes in bulk densities. The system's high material-to-air ratio ensures energy efficiency. Because there are no rotating parts, it ensures low maintenance costs.

There are Two Types of Dense Phase Conveying System

- Dense Phase Pressure Conveying System
- Dense Phase Vacuum Conveying System

Lean – Dilute phase conveying system.



Dilute phase conveying system or Lean phase conveying system is described as the process of (pressure) pushing or (vacuum) pulling particles suspended in air from one location to another. At low pressure and high velocity, the air-suspended particles are transferred continuously.

Basically Dilute Phase conveying systems are a mode of transporting powders generally through a positive displacement blower, side channel blowers or vacuum pumps. It is a simple system used for various powders

that doesn't have any specific quality requirements for degradation or loss of material properties.

There are Two Types of Lean – Dilute Phase Conveying System

- Dilute phase pressure conveying system
- Dilute phase vacuum conveying system



AIR POLLUTION CONTROL SYSTEMS

Air pollution is controlled to protect the environment from the harmful effects of industrial pollutants. We must eliminate the impact air pollution has on humans, animals, plants and all other life supporting systems. Air Pollution Control (APC) can be described as a “separation” technology. The pollutants, whether they are gaseous, aerosol, or solid particulate, are separated from a carrier gas which is usually air.

Air Pollution is any substance in the air that can cause harm to humans and the environment. Pollutants can be in the various form like solid particles, suspended particulate matter, liquid droplets, or gases. Pollutants can be classified as primary or secondary. Primary pollutants are directly emitted from a process, such as dust particles in the air during the material handling process, the carbon monoxide gas from a motor vehicle exhaust or sulfur dioxide released from factories. Secondary pollutants are not emitted directly. Rather, they form in the air when primary pollutants react or interact. An important example of a secondary pollutant is ground level ozone.

The pollutants are categorized as follows:

1. Gaseous pollutants are compounds that exist as a gas at normal conditions.
2. Solid particulates can be evolved through combustion or through common processing operations such as grinding, roasting, drying, coating, forming or metalizing
3. Aerosols are finely divided solid and liquid particles that are typically under 0.5 microns in diameter.

Air pollution control systems can be very specific relative to their treatment capability, broad based and can effectively treat a wide range of compounds. It is broken into two functional categories, Particulate Matter Control and Gaseous (Waste gas) Pollutant Control.

Stratgem offers wide range of end to end solutions for all particulate and gaseous emissions with custom designed equipments viz. pulse jet bag filters, wet scrubbers, cyclones etc.

OUR POWDER HANDLING SOLUTIONS



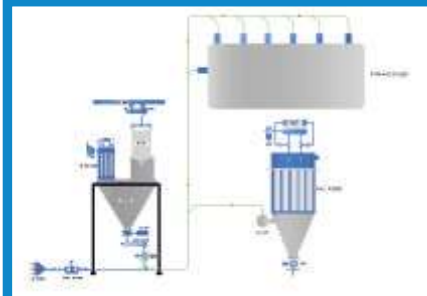
**Dilute
Phase
Conveying
System**



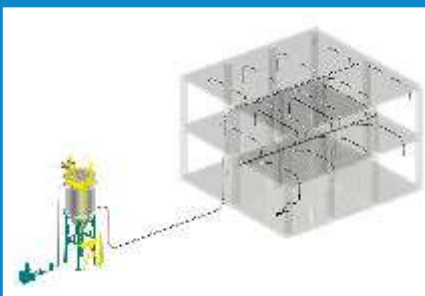
**Dense
Phase
Conveying
System**



**Closed
Loop
Conveying
System**



**Dry
Sorbent
Injection
System**



**Centralised
Vacuum
Cleaning
System**



**Tanker
Loading &
Unloading
System**



**Silo
Discharge
Solutions**



**Bulk Bag
Discharge
Solutions**



**Vacuum
Powder
Transfer
Systems**

OUR POWDER HANDLING PRODUCTS



Bag Dump Stations



Diverter Valves

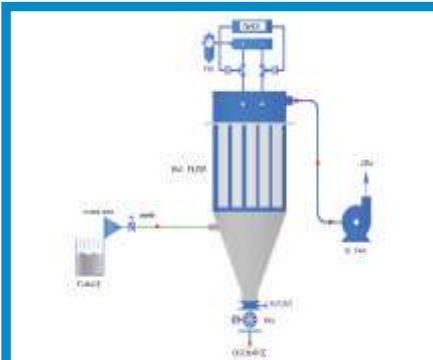


Screw Conveyors

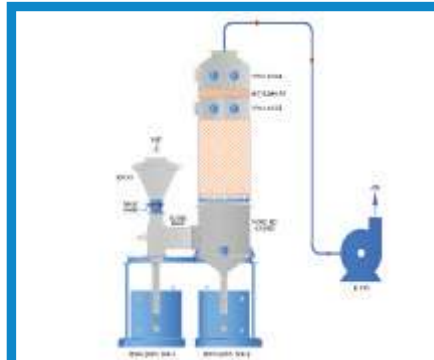


Rotary Airlock Valves

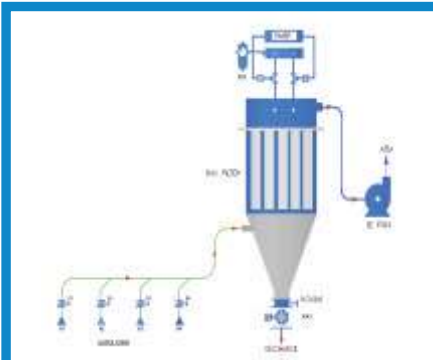
INDUSTRIAL AIR POLLUTION CONTROL SYSTEMS



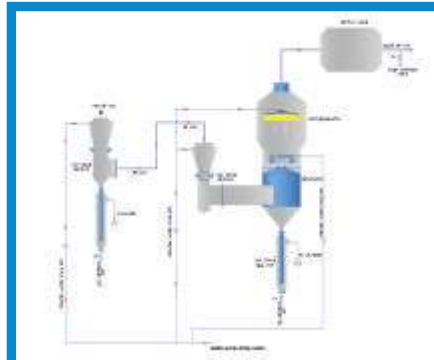
**Fume
Extraction
Systems**



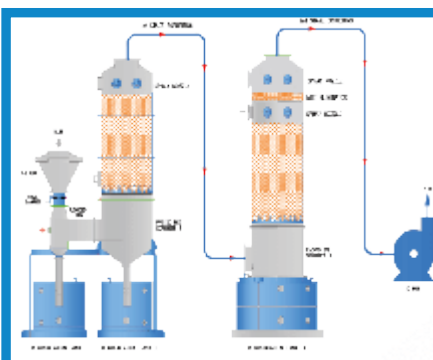
**Flue
Gas
Treatment**



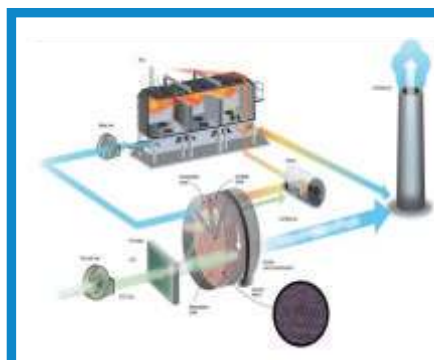
**Dust
Extraction
Systems**



**Gas
Cleaning
Plants**

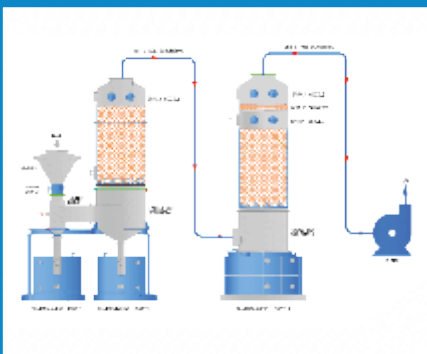


**Flue Gas
Desulfuri-
zation
(FGD)**



**Odour And
VOC
Abatement
Systems**

AIR POLLUTION CONTROL PRODUCTS



Wet Scrubbers



Pulse Jet Bag Filters



Cyclones And Multiclones



Spark Arrestor



Cartridge Dust Collectors



Quencher

AIR POLLUTION CONTROL PRODUCTS



Centrifugal Fan



Portable Dust Extractors



Industrial Fume Extractor



Chip Collector



Vacuum Cleaner



Spot Filter

APPLICATIONS



FOOD & BEVERAGES

BAKERY

- Bread
- Rolls
- Cookies
- Pies
- Pastries
- Muffins

MILK & DAIRY

- Sugar
- Cocoa Powder
- Milk Powder
- Soy Powder

SPICES

- Turmeric
- Chilli
- Curcumin
- Ginger
- Salt
- Flavours
- Mustard
- Coriander
- All types of Masalas

CONFECTIONARY

- Caramel
- Toffee
- Taffy
- Gums
- Hard Boiled Candy
- Brittles
- Jellies
- Chocolate

ANIMAL FEED

- Talc
- Cattle Feed
- Poultry Feed
- Corn Silage
- Pellet Feed
- Rice DDGS
- Calcite
- Protein powder
- Rice Bran
- Soyabean
- Feed Yeast

OTHERS

- Wheat Flour
- Sooji & Rawa
- Soya Chunks
- Sugar
- Soya Flour
- Maltodextrin
- Corn Flour
- Guar Gum
- Starch

NON-ALCOHOLIC BEVERAGES

- Tea Leaves
- Coffee Beans (green & roasted)
- Coffee Powder
- Flavours



ALCOHOLIC BEVERAGES

- Wheat
- Barley
- Malt
- Rice



CHEMICAL & PETROCHEMICAL

DETERGENTS

- SLS Powder
- SLS Needles
- Soda Speckles
- Soda Ash
- Sodium Silicate
- Calcium Carbonate
- Soda Bicarbonate

CHEMICALS & MINERALS

- Silica Powder
- Hydrated Lime
- Caustic Soda
- Sand
- Sulphur
- Urea Formaldehyde
- Quartz
- ATH

PAINTS

- Alpha Blue
- Beta Blue
- CPC Blue
- Aluminum Chloride
- Dyes
- Green Pigment
- Rutile
- Calcined Clay
- White Cement
- Dolomite



ARGO CHEMICALS

- Talcum
- Mancozeb
- Herbicides
- Fungicides





PLASTIC AND POLYMER

ADDITIVES POWDERS

- Titanium Dioxide
- Filler Powder
- PTA
- Calcium Carbonate
- Talc
- Catalyst

POLYMER POWDERS

- PVC
- Resin

POLYMER GRANULES

- PP
- PE
- PET
- LLDPE
- HDPE
- Nylon
- Resin
- HIPS
- GPPS
- ABS
- PC
- Masterbatch Granules
- LDPE



GRAIN HANDLING



GRAINS

- Wheat
- Rice
- Maize/ Corn
- Rye
- Sorghum
- Other Grains

OUR PRESTIGIOUS CLIENTS

Our Clientele



vedanta
transforming for good



schenck process



Atul
touching lives...



Prasol Chemicals Ltd.



Panasonic

INDORAMA
CORPORATION

HARSCO



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