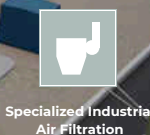
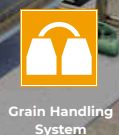
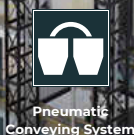




YOUR TRUSTED PARTNER in Progress & SUCCESS



INTRODUCTION



Established in 2004, Indpro Engineering Systems Pvt. Ltd. provides end-to-end solutions in the field of bulk solids handling, covering everything from raw material handling to finished product bagging. Our product verticals include Pneumatic Conveying Systems, Mechanical Conveying Systems, Raw Material Handling, Bulk Solids Handling Products, Grain Handling, Specialized Industrial Air Filtration Systems, and System Components.



COMPANY
PROFILE

20+
YEARS

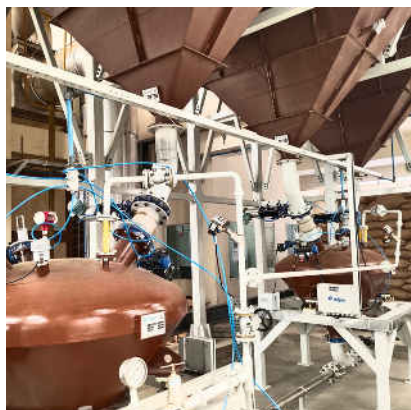
70%
REPEAT ORDERS

1000+
PROJECTS

110+
TEAM

12+
COUNTRIES

2
TIE-UPS



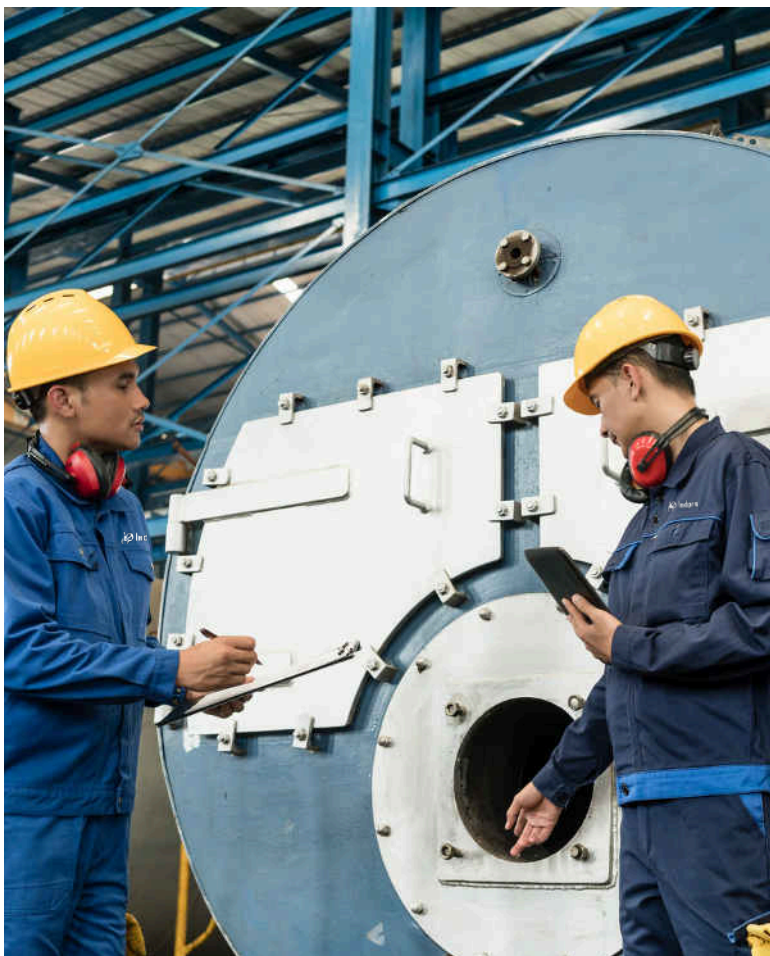
INTRODUCTION



OUR CUSTOMER CENTRIC APPROACH

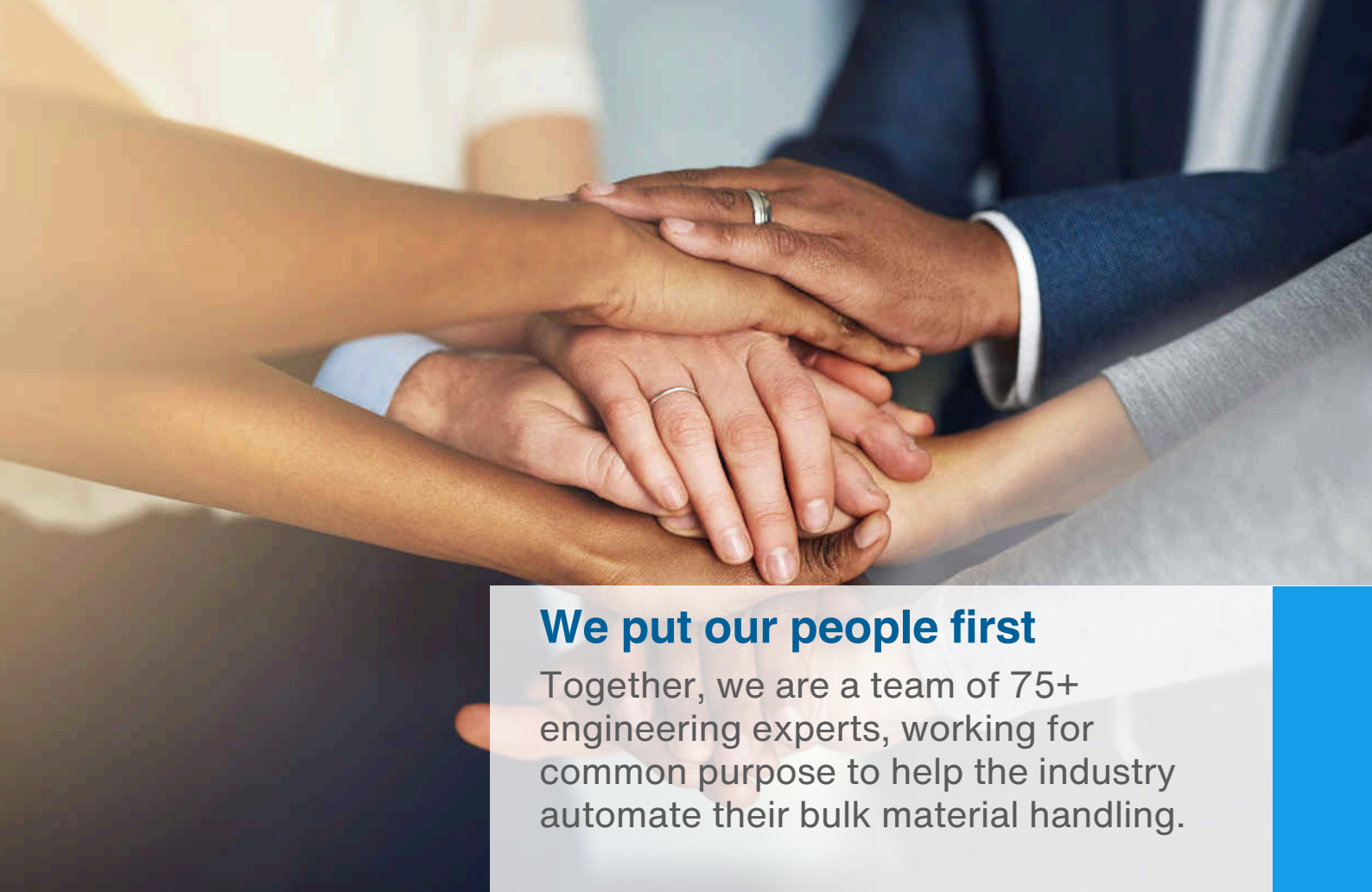
We have a team of highly qualified engineers right from sales to services who are well trained to understand the customer's need, analyze and provide an optimum solution while keeping customer satisfaction on topmost priority. That's why we say that Innovation, Quality Engineering and Customer Satisfaction are three foundation pillars for Indpro.

We are associated with some of the top players in bulk solids handling which has empowered us to offer a solution to all your material handling needs.



BRINGING IDEAS & INNOVATION
TO LIFE THROUGH TECHNOLOGY

WE ARE RISING WITH RISING CUSTOMER SATISFACTION



We put our people first

Together, we are a team of 75+ engineering experts, working for common purpose to help the industry automate their bulk material handling.

HOW WE DELIVER GUARANTEED PERFORMANCE

Expert team

Highly qualified & trained engineering team

Rich industry experience

20+ years of experience in bulk material handling

Reliable system design

Use of top quality material and reliable automation systems

Easily serviceable systems

Essential to reaching its full lifetime potential



Comprehensive
process knowledge



Customer centric
approach



Commitment
to quality



Continuous product
innovation



VISION

To improve productivity, safety & quality of life of people by providing innovative engineered solutions for bulk solids handling.



MISSION

We strive to attain our vision by continually improving performance in every area and level of our organization to be a preferred business partner for bulk solids handling solutions.



CORE VALUES

- Growth through partnerships
- Fairness in all transactions
- Endless innovation & continuous improvements
- Commitment to delivery



QUALITY

We follow the requirements stated by ISO 9001:2015 and strive for continual improvement in all the areas by setting new objectives time to time.



RAVINDRA KULKARNI

Managing Director —



“

Indpro has always had a clear and straight forward goal to continuously improve quality and maintain it at a high level on a daily basis. This, I believe, is the best way to assure long-term safety, not just for equipment or machinery, but also for all people. Regardless of boundaries or regions, all workers, including myself, are bound by values and ethical standards that define our core norms for working with all our business partners.

We have collectively been able to develop a working atmosphere that is defined by mutual trust and respect, who believe in extracting the best of qualities from one another and hence work together towards betterment of Indpro for our customers.

SOLUTIONS WE OFFER

BULK SOLIDS HANDLING SYSTEM



RAW MATERIAL HANDLING SYSTEM



PNEUMATIC CONVEYING SYSTEM



GRAIN HANDLING SYSTEM



AIR POLLUTION CONTROL SYSTEM

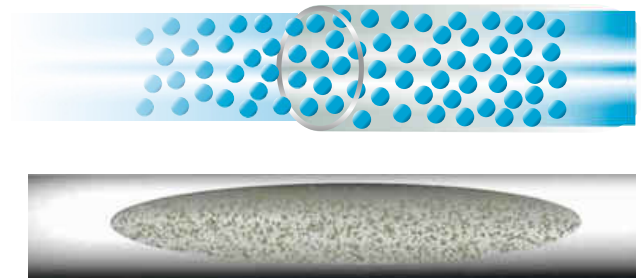
OUR BRANDS



PNEUMATIC CONVEYING TECHNOLOGY

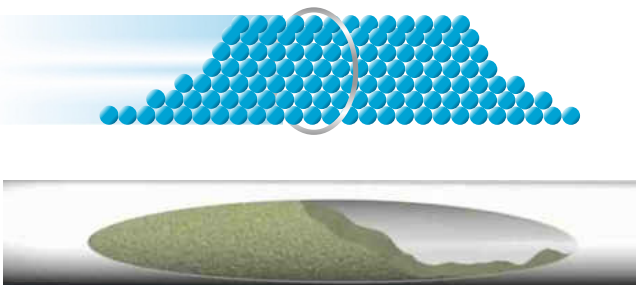
Dilute Phase Conveying System

These systems have transport gas velocities in the range of 20 - 35 m/s depending on the product. It uses high velocity, low pressure and low product to air ratio. The conveyed product is completely dispersed in the gas flow. The installation cost for such a system is very economical.

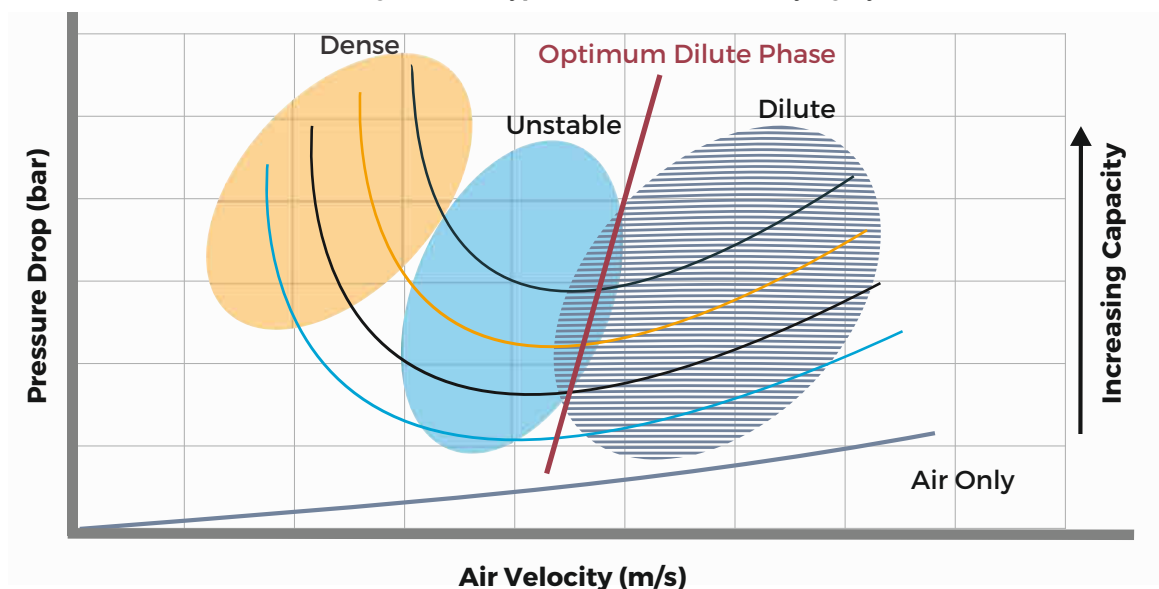


Dense Phase Conveying System

These systems have transport gas velocities in the range of 1 - 15 m/s depending on the product. It uses low velocity, high pressure and high product to air ratio. The conveyed product either moves in fluidized packets or in slugs or dunes. Such a system is ideal for long distances and / or for fragile products.



Phase Diagram of a Typical Pneumatic Conveying System



PNEUMATIC CONVEYING TECHNOLOGY



A pneumatic conveying system is a blend of technology with art by which bulk material in the form of granules or powders is transported through a pipe by using the flow of air or other gas. There can be a variety of different bulk materials from various industries that can be conveyed using this technology. Different materials require different expertise of application engineering to solve the conveying needs. We can help you move your bulk material from one point to another through a series of horizontal & vertical piping with the help of this technology.

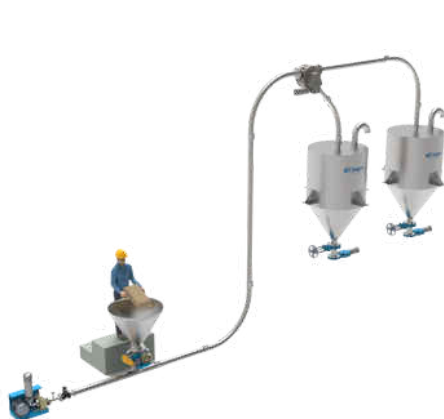
CHARACTERISTICS OF THE SOLUTIONS

DENSE PHASE

DILUTE PHASE

Sr.No	Vacuum	Pressure	Vacuum	Pressure
Max. conveying distance	20 m	1000 m	200 m	300 m
Conveying velocity (m/s)	1-15 m/s	1-15 m/s	20-35 m/s	20-35 m/s
Product to air ratio	upto 100	upto 100	upto 15	upto 15
Energy cost	more expensive	more expensive	less expensive	less expensive
Product attrition	Low	Low	High	High
Air pressure	As low as -1 bar(g)	upto 6 bar(g)	As low as -0.5 bar(g)	upto 1 bar(g)
Pipe size	Smaller	Smaller	Larger	Larger
Special pipe supports	No	Yes	No	No
Conveying capacities	1 to 10 TPH	1 to over 100 TPH	Less than 20 TPH	1 to 50 TPH
Best for these types of material	- Free flowing - Granular - Pelletized - Abrasive & non - abrasive	- Free flowing - Granular - Pelletized - Abrasive & non - abrasive	- Non-abrasive - Fine - Granular - Low or high bulk density	- Non-abrasive - Fine - Granular - Low or high bulk density

PRODUCTS & SOLUTIONS



Pressure conveying system with multiple discharge



Vacuum conveying system with multiple discharge



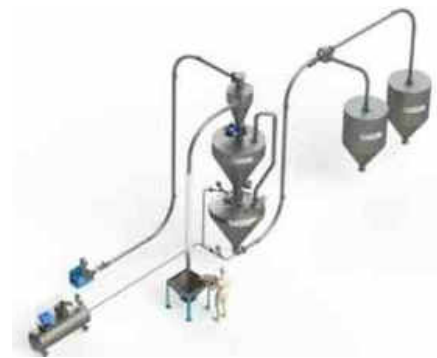
Pressure conveying system with big bag unloading



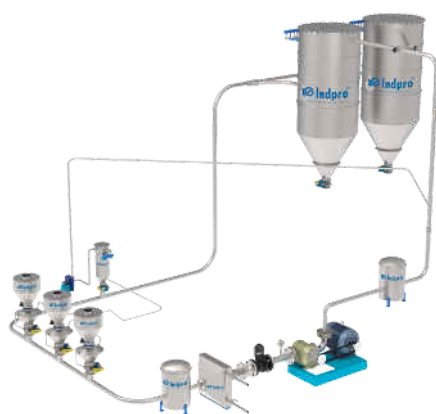
Vacuum conveying system with big bag unloading



Dense phase polymer conveying system with high pressure rotary valve



Dense phase pressure conveying system integrated with vacuum loader



Closed loop conveying system with nitrogen



Vacuum conveying system with suction tool feeder



Venturi feeder conveying system

PRODUCTS & SOLUTIONS



iDeLump

Lump Breaker - For breaking up lumps in bulk materials



iBlend

Horizontal Ribbon Blender - For homogeneous blending of dry, free-flowing solids



iVibra

Vibratory Tubular Feeders - For efficient and gentle material handling



iRotocon

The Ultimate Solution for Powder Bridging and Silo Discharge Problems



iDose

Screw Conveyor - To transport of powder or granular materials



iBlend

Blender - To blend & dry different types of polymer granules



iDivert

Divertor Valves : Single tunnel, Dual tunnel, Flap type for discharge



iFeed

Rotary Valves : Fall through, Blow through, Quick cleaning



iDischarge

Bin Activator - To overcome bridging & rat holing of bulk solids

PRODUCTS & SOLUTIONS



iStore

Storage Silo - For bulk storage of powders & granules



Bulker Unloading

Bulker Unloading - For unloading bulk material from bulkers to silos



Portable Powder Collector

Powder Collector - For collection & recovery of spill over powders



iTilt-B

Bag Lifter & Tilter - To discharge material from 50 kg bags safely while ensuring no dust formation



iTilt-C

Hydraulic Container Tilter -For efficient bulk material unloading from containers



iTilt-D

Drum Lifter & Tilter - To discharge material from drums safely while ensuring no dust formation



iBatch

- Gain-in-weight system
- Loss-in-weight system
- High accuracy load cell & controller



iWeigh

Inline Weigh Scales - For quick weighing of material



SlitMaster

Automatic Bag Slitting Machine - To empty 10 kg to 25 kg bags automatically

PRODUCTS AND SOLUTIONS



Powder Transfer System

iTransfer is a compact, efficient and reliable method of transferring and dispensing bulk powders or granules.

- The iTransfer provides dust free means of material transfer, up to 10 m³/hr.
- This system facilitates reduction in batch time & total process integration.
- It is ideally used for reactor charging and hopper loading.
- Transfers various types of powders (sticky, fine, non - free flowing, hygroscopic, corrosive, cohesive, adhesive, etc.)

iTransfer
Powered by Indpro



Big Bag Unloading System

Jumbo bag unloading systems are specifically designed for discharging a large variety of products from different sizes of big bags. They eliminate dust emissions, product loss or product contamination.

- Space saving integral bag hoist with runway beam
- No forklift required
- Integral conveyor and feeder
- Safety of operators while handling big bags
- Dust free discharge of material from big bags

PRODUCTS AND SOLUTIONS



Portable Grain Handling System

GrainCon is a portable, compact and efficient solution for those who want to convey grains from point A to point B.

- GrainCon can handle a wide variety of grains, such as wheat, oat, rice, maize, barley, sorghum, rye, etc.
- GrainCon significantly lowers labor costs for manual handling of grains from site to processing section.
- Grains can be transported from a variety of sources like farms, yards, loose heaps, bags, jumbo bags, drums, FIBC, and other containers.



iDump
Bag Dump Station

Manual Bag Dump Station

Bag dump station allows for efficient and effective emptying of bags of bulk solids, either powders and granules, while mitigating loss of product through dusting.

- Fast bag emptying within 30 seconds
- Compatible with various downstream equipment
- Automatic cleaning with audio & visual alarms
- Complete recovery of product lost through dusting

PRODUCT AND SOLUTIONS

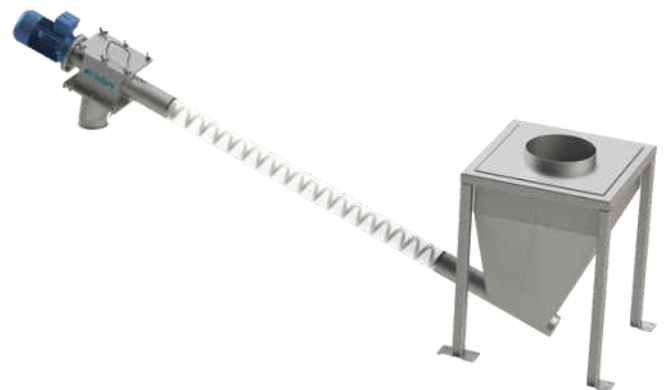


Flexible Screw Conveyor

Flexible screw conveyor is a one-moving-part conveyor capable of securely and reliably carrying a wide range of free-flowing powders, granules, or pellets throughout your plant.

- Design simplicity
- Gentle product handling
- High RPM for more capacity through a small tube
- Quick release couplings at all junctions for easy removal & cleaning during product changeover
- Constant remixing

iFlex
Flexible Screw Conveyor



DISKCON
Powered by Indpro



Tube Chain Conveyor

Diskcon is a fully enclosed mechanical conveying system, comprising of a tubular casing through which the product is conveyed. Inside is a chain disk assembly which carries the material

- Material is gently handled inside the tubing at a very low velocity.
- Diskcon is the ideal solution to handle fragile, explosive and hygroscopic bulk solids.
- Product integrity is maintained which ensures you get the same product quality from the outlet as you put into the inlet.

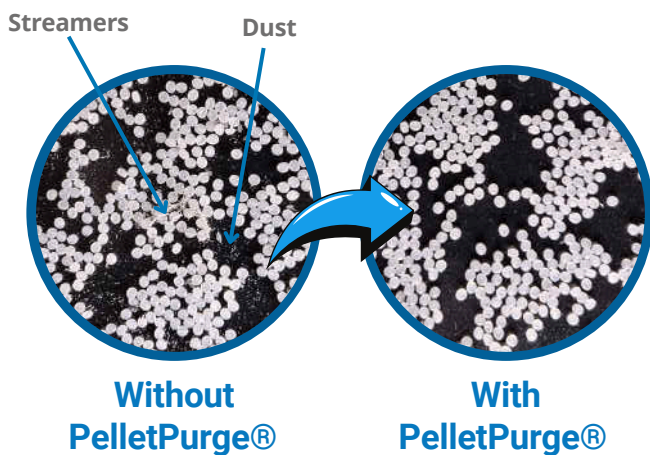
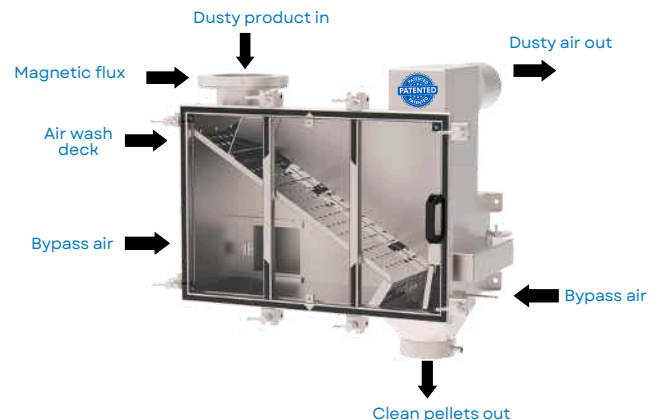
PATENTED PELLET CLEANING TECHNOLOGY



The Need

PelletPurge® is designed to clean pellets and get rid of dust & streamers. It sets a new standard in plastic manufacturing. Its optimal placement beneath storage silos before plastic processing or packing ensures efficient removal of accumulated impurities and enhancing product quality. Join us in embracing this innovative solution and elevate your manufacturing processes to new heights with **PelletPurge®**!

Indpro **PelletPurge®** was developed as a result of demand for high quality standards in the plastics & polymer industry.



Benefits of PelletPurge®

- Easy to operate & install
- Improved product quality
- Reduced material wastage
- Enhanced production efficiency
- Reduced downtime
- Lower maintenance costs
- Reduced dust and fine particle emissions
- Environmental protection
- Compatibility with various materials

DUST COLLECTION SYSTEMS

- Dry dust separation and recovery from dirty gas are the main focal points of our system. In this segment, we supply on-line pulse jet filters for various fugitive dust control applications. In-house manufacturing stands guarantee for the quality, flexibility and reliability of the product.
- Design, manufacturing & supply of such systems is provided in chemical, food, dairy, petrochemical, plastics & polymers, minerals, detergents & soaps, fertilizer, pharmaceutical and paint industries.



Filter Cartridge



- Diameter 150/225/327 mm
- Application specific filter material
- Occupies lesser footprint for same filtration area
- Available with PTFE membrane
- Available with top or bottom mounted design

Filter Bags

- Diameter 116 /160 mm
- Application specific filter media
- Good flexure strength
- Available with PTFE membrane
- Ideal for fine and cohesive dusts
- Snap band design for ease of installation



SAMAIIR® Filter Units

- Panel design for large units
- Up to 2 years life of filter elements
- Outlet emissions up to 10 mg/Nm
- Filter cleaning air pressure 5-6 bar(g)
- MOC - Carbon steel & stainless steel housing
- Customized design to fit in available space
- E&I in FLP & ATEX constructions
- Ease of maintenance
- Design temperature up to 250°C
- Explosion protection & venting design available for explosive dust



APPLICATIONS

POLYMER & PETROCHEMICAL

Polymer granules

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

Additives Powders

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

Polymer powders

- PVC
- Resin

Recycled polymers

- PET flakes
- PO flakes
- PP fluff
- PET fluff

CHEMICAL

Chemicals

- Silica Powder
- Hydrated Lime
- Caustic Soda
- Urea Formaldehyde
- Sulphur
- Quartz
- ATH
- Bentonite
- Sodium Carbonate
- Sodium Bisulphate
- Copper Chloride

Argo chemicals

- Talcum
- Mancozeb
- Herbicides
- Fungicides

Pharmaceutical chemicals

- Metformin HCL
- Paracetamol
- Acetaminophen
- Para Aminophenol

Paints

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

Detergents

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

Minerals

- Sand
- Refractory materials
- Marble Chips
- Magnesium Oxide

APPLICATIONS

FOOD PROCESSING

Spices

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

Grains

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

Milk & Dairy

- Sugar
- Cocoa Powder
- Milk Powder
- Soy Powder

Animal Feed

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

Non-alcoholic beverages

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

Alcoholic beverages

- Wheat
- Barley
- Malt
- Rice

Others

- Guar Gum
- Starch
- Maltodextrin
- Corn Flour
- Citric Acid
- Glucose

ENERGY

Anode based battery

- Silicon
- Graphite
- Lithium Titanate
- Silicon-Carbon Composite

Cathode based battery

- Lithium Cobalt Oxide
- Aluminum Oxide (NCA)
- Nickel Hydroxide
- Lithium Carbonate

Recycling Material

- Black Mass Powder

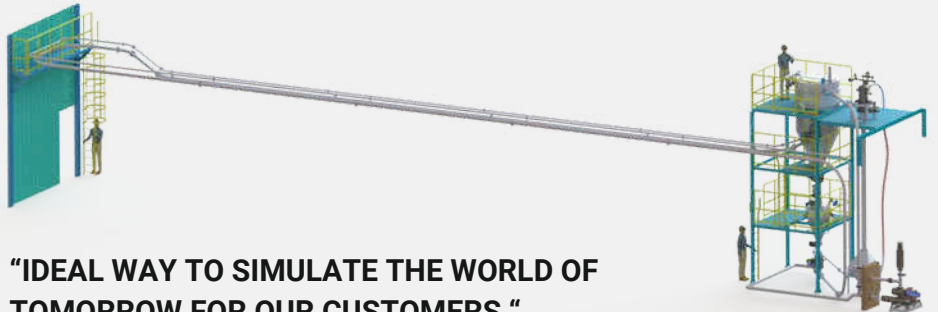
Solar PV Module

- Metallurgical Grade Silicon (MG-Si)

Energy Source

- Coal

INDPRO TECHNICAL CENTER



“IDEAL WAY TO SIMULATE THE WORLD OF
TOMORROW FOR OUR CUSTOMERS “

- Team Indpro



WHY TEST YOUR MATERIAL

Pneumatic conveying of different materials require different approaches. Every material is special in its own right and behaves differently in a pipeline. The only way to find out how a material behaves in a pipeline is to put it in one and convey it!



EVALUATE PARAMETERS

We test properties of every new bulk solids we take up the challenge to convey and evaluate proprietary parameters required to design your system. Without doing such testing, it is impossible to design a bulk solids handling & pneumatic conveying system that operates at optimum parameters.



DATA LOGGING DEVICES

We have equipped our pneumatic conveying systems with sophisticated data logging devices and IoT-enabled monitoring solutions. These advanced technologies help us monitor and optimize conveying parameters of various bulk solids in real time, ensuring higher efficiency, predictive maintenance, and seamless process automation.



PRESSURE AND VACUUM

Our test rig is a combination of blower, high pressure compressor and vacuum pump which provide possibilities to engage testing in either pressure mode or vacuum mode.



PHASE OF TRANSFER

Dilute phase & dense phase methods of conveying are made possible in the state-of-the-art pilot plant.



PELLET CLEANING TECHNOLOGY

Our innovative PelletPurge® is made available for evaluating efficiency of pellet dedusting application.



Indpro invites
you to visit our
experience center

GLOBAL BUSINESS ASSOCIATES

PAYPER



Payper specializes in the design and manufacturing of advanced weighing, bagging, and palletizing systems, offering complete automation in bulk packaging.



Herding
reine Produktivität
FILTERTECHNIK



Herding specializes in pure surface filtration, achieved through the advanced Sinter-Plate Filter technology. The rigid structure of the filter media offers advantages in filtration & dust recovery.



OUR GEOGRAPHICAL REACH



We provide tailored material handling solutions across the globe to optimize your operations.

CLIENTELE

Polymer & Petrochemical

Chemical

Mineral

Pharmaceutical

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Food & Beverage

GLOBAL BUSINESS ASSOCIATES



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