INNOVATION | QUALITY ENGINEERING | CUSTOMER SATISFACTION

INTEGRATED AND PRO-ACTIVE APPROACH TO EXCELLENCE

Pneumatic Conveying System
Grain Handling
(Brewery & Distillery)
Air Pollution Control
Bulk Handling Solutions
VISION

Indpro’s vision is to build total brand value through innovation and quality engineering to achieve total customer satisfaction in the field of bulk solids handling.

MISSION

We will strive to attain our vision by continually improving performance in every area and level of the organization. Our performance will be guided by a clear and concise strategic development plan for each business unit and by an on-going quest for excellence within all operational and staff functions.
CAPABILITIES & BUSINESS AREA

Distilleries and Breweries
Food & Pharma
Chemical & Petro chemical
Plastics and Polymers
2004 • Company foundation & business initiation in Brewery sector and Snacks food.

2005 • First step into distillery sector & specialized De-dusting.

2007 • 28% growth & addition of 22 new customers

2008 • Customer survey results comes out with flying colors of 92% satisfied customers which supported 30% growth.

2010 • Indpro acquired its Corporate office at Bavdhan and manufacturing unit at Pirangut, Pune.

2012 • Formed JV – PYPER Bagging Systems (I) Pvt. Ltd. with PAYPER Spain for Bagging and Palletizing
• Partnership with PELLETRON, USA for pneumatic conveying in Plastic and polymer industry
• Partnership with Herding, Germany for specialized pulse jet filter

2013 • GAIL :EIL, INDOFIL & RIL added as new customers.

2014 • Export orders from Gorkha Brewery, Nepal & Unilever, INDONESIA
• Entry in Pharmaceutical Sector

2015 • Inauguration of R & D Set up for Pneumatic conveying of bulk solids
• Major installations in plastic and polymer Industries- DSM, RIL, Lanxess etc.
• Addition of new products like PTS, Big Bag Unloading, Tube Chain Conveyor
OUR BUSINESS ASSOCIATES

Herdings Filtertechnik

Indpro Engineering Systems Pvt. Ltd.

Payper Bagging Technology

pelettron

Discover Bulkmatology®
The Nature of Bulk Material Handling
PNEUMATIC CONVEYING SYSTEM

Technologies we offer

- **Lean/ Dilute Phase Conveying**
  - Pressure type
  - Vacuume type

  - High gas velocities: \( v = 25-40 \text{ m/s} \)
  - Low product to air ratio: range 1-10 to 1
  - Low to medium pressure drop: \( p = 0.1-1.0 \text{ bar} \)

- **Dense phase conveying**

  - Low gas velocities: \( v = 2-10 \text{ m/s} \)
  - High product to air ratio: range 15-50 to 1
  - High pressure drop: \( p = 0.5 - 3.5 \text{ bar} \)
  - Special pipe support: Yes

- **Strand Phase Conveying**

  - Optimized gas velocity: \( v = 15-25 \text{ m/s} \)
  - Medium product to air ratio: range 5-20 to 1
  - Medium to high pressure drop: \( p = 0.5-2.0 \text{ bar} \)
  - Special pipe support requirements: No
## Conveying Type

<table>
<thead>
<tr>
<th><strong>Conveying Type</strong></th>
<th><strong>Selection</strong></th>
<th><strong>Advantages</strong></th>
<th><strong>Limitations</strong></th>
</tr>
</thead>
</table>
| **Lean/Dilute Phase**  | • Conveying rates upto 100 TPH  
                       • Distances upto 500 meter  
                       • Pressure upto 2 barabs  
                       • Pressure, Vacuum or combination of both | • Simple design  
                       • Low cost  
                       • Operator friendly  
                       • Simple pipe supports  
                       • No Pressure/Volume control unit required | • Product Degradation in terms of change in form, segregation and loss of aroma  
                       • Dust and streamer generation |
| **Strand phase**       | • Conveying rates upto 100 TPH  
                       • Distances upto 500 meter  
                       • Pressure upto 3 barabs  
                       • Pressure, Vacuum or combination of both  
                       • to have most economical system with minimal dust geneartion. | • No special air management or controls necessary  
                       • No need for special pipe supports  
                       • Less maintenance  
                       • Moderate levels of coarse, easy to remove dust and streamers  
                       • High system flexibility in reference to capacity turn-down ratios  
                       • Moderate capital investment costs | • Limitation for conveying distance |
| **Dense Phase**        | • Conveying rates upto 60 TPH  
                       • Distances upto 2500 meter  
                       • Pressure upto 5 barabs  
                       • Pressure system is preffered | • Less energy consumption if one air mover and more systems  
                       • Minimum dust and streamer generation  
                       • Suitable for abrasive and degradable products | • The product range is less  
                       • The pressure loss is high  
                       • fine micro dust generation |
### Characteristics

#### Different Conveying Modes

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Dilute Phase</th>
<th>Strand Phase</th>
<th>Dense Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product range</td>
<td>wide</td>
<td>wide</td>
<td>narrow</td>
</tr>
<tr>
<td>Gas velocity</td>
<td>high</td>
<td>medium</td>
<td>low</td>
</tr>
<tr>
<td>Product/gas ratio</td>
<td>low</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Product dispersed</td>
<td>yes</td>
<td>partly</td>
<td>no</td>
</tr>
<tr>
<td>Pressure loss / m (=D)</td>
<td>medium</td>
<td>low</td>
<td>high</td>
</tr>
<tr>
<td>Pressure range typical</td>
<td>blower</td>
<td>Up to 2bar</td>
<td>3 – 6bar screw</td>
</tr>
<tr>
<td>Air management system</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Pipe size</td>
<td>medium</td>
<td>small</td>
<td>large</td>
</tr>
<tr>
<td>Energy consumption</td>
<td>high</td>
<td>small</td>
<td>medium</td>
</tr>
<tr>
<td>Installed cost</td>
<td>low</td>
<td>medium to low</td>
<td>high</td>
</tr>
</tbody>
</table>
Pneumatic Conveying

Systems technology

NEW pellcon3™ Process

STRANDPHASE™ conveying

EXTRUDER  ➔  BLENDER

Use of Pellbows in conveying lines = component two

Component three

BAGGING TRUCK LOADING
The Pellbow®
For fines reduction and streamer elimination

The Pellbow®, a specially designed and patented pipe elbow

DeDuster®
Dust and streamer removal solutions
The Pelletron DeDuster® working principle consists of three (3) patented features:

a) Magnetic flux field coil
b) Wash Deck
c) Ventury Zone
## Rotary Valves

<table>
<thead>
<tr>
<th>Rotary Valve:</th>
<th>Quick Clean Rotary Valve:</th>
<th>Mirror finished Rotary Valve:</th>
<th>Blow Through Rotary:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Anti shearing device (patented) for gentle product handling</td>
<td>• Suitable for granular and pellets or powder</td>
<td>• Buffing 400</td>
<td>• For medium pressure up to 1,5 bar</td>
</tr>
<tr>
<td>• Integrated leakage air vent for improved filling efficiency</td>
<td>• For medium pressure pneumatic conveying systems or gravity applications</td>
<td>• For powder Applications</td>
<td>• For medium pressure up to 3,5 bar in development</td>
</tr>
<tr>
<td>• Heavy duty housing and bearing support for minimized rotor tolerance</td>
<td>• For differential pressure up to 1.5 bar</td>
<td>• For medium pressure up to 1.5 bar</td>
<td>• For high capacities up to 150t/h</td>
</tr>
<tr>
<td>• Closed end rotor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diverter Valves</td>
<td>Size / Material</td>
<td>Use of Application</td>
<td>Rotating Angle</td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
<td>--------------------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td>DN 50 to DN 300 Stainless Steel/Aluminum Alloy</td>
<td>Powder &amp; Pellet Conveying / Gravity Feeding</td>
<td>45°, 90°, 135°</td>
</tr>
<tr>
<td></td>
<td>DN 75 to DN 300 Stainless Steel/Aluminum Alloy</td>
<td>Pellet Conveying / Gravity Feeding</td>
<td>45°</td>
</tr>
<tr>
<td></td>
<td>DN 50 to DN 500 Carbon Steel/Stainless Steel</td>
<td>Powder &amp; Pellet</td>
<td>30°, 45°, 60°, 90°</td>
</tr>
</tbody>
</table>
Pelletron P-series DeDuster®

Pelletron DO-series DeDuster®

Pelletron XP-series DeDuster®

Pelletron RC-series DeDuster®
MECHANICAL HANDLING SYSTEM

Mechanical Handling System
Screw Conveyer

(Tubular Trough)

INDPRO designs, manufactures and Supplies feeder of various sizes, lengths and capacities. Screw diameter range from 100 mm to 800 mm. We supply these feeders to flour mills, breweries distilleries & starch manufacturer's as per their specific requirement.

**Selection Chart**

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Speed r.p.m.</th>
<th>Capacity in TPH for wheat B.D.O. 0.75/M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 150</td>
<td>60 - 80</td>
<td>2.8</td>
</tr>
<tr>
<td>SC 200</td>
<td>60 - 80</td>
<td>6.7</td>
</tr>
<tr>
<td>SC 250</td>
<td>60 - 80</td>
<td>13.2</td>
</tr>
<tr>
<td>SC 315</td>
<td>60 - 80</td>
<td>24</td>
</tr>
<tr>
<td>SC 350</td>
<td>60 - 80</td>
<td>36</td>
</tr>
<tr>
<td>SC 400</td>
<td>60 - 80</td>
<td>54</td>
</tr>
<tr>
<td>SC 500</td>
<td>60 - 80</td>
<td>100</td>
</tr>
</tbody>
</table>
Screw Conveyer  
(U Trough)

INDPRO designs, manufactures and Supplies feeder of various sizes, lengths and capacities. Screw diameter range from 100 mm to 800 mm. We supply these feeders, on turn key basis to flour mills, breweries, distilleries & starch manufacturer’s as per their specific requirement. **Selection Chart**

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<tr>
<td>SC 500</td>
<td>60 - 80</td>
<td>100</td>
</tr>
</tbody>
</table>
Bucket Elevator

INDPRO's modular design ensures perfect fitment. It keeps the system rigid resulting in absolute alignment and easy operation. Inspection Door which is readily removable provides ease for maintenance. The efficient grain discharger handles a variety of free flowing material like rice, wheat, corn, sunflower seed, malt. It handles grains gently having very negligible fall back. Higher speed of pulleys discharges material by centrifugal action. UHMWPE lining minimizes any type of wear and increases efficiency. Zero speed switch and Hold – Back device ensures complete safe operation. Minimum maintenance is required due to self cleaning by flanged bearing units at both the ends. High speed operation moves higher volumes in optimum size. Drive through geared motor ensures low power consumption.

<table>
<thead>
<tr>
<th>Model</th>
<th>Belt Speed M/Sec</th>
<th>Capacity M3/Hr</th>
<th>TPH for wheat B.D. 0.76 T/M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE-100</td>
<td>1.4</td>
<td>3.95</td>
<td>3.0</td>
</tr>
<tr>
<td>BE-125</td>
<td>1.5</td>
<td>8.55</td>
<td>6.5</td>
</tr>
<tr>
<td>BE-150</td>
<td>2.0</td>
<td>20</td>
<td>15.0</td>
</tr>
<tr>
<td>BE-200</td>
<td>2.4</td>
<td>39.5</td>
<td>30.0</td>
</tr>
<tr>
<td>BE-250</td>
<td>2.8</td>
<td>75</td>
<td>57.0</td>
</tr>
<tr>
<td>BE-300</td>
<td>3.2</td>
<td>131</td>
<td>100.0</td>
</tr>
<tr>
<td>BE-375</td>
<td>3.2</td>
<td>197</td>
<td>150.0</td>
</tr>
<tr>
<td>BE-450</td>
<td>3.2</td>
<td>360</td>
<td>260.0</td>
</tr>
</tbody>
</table>
Chain Conveyor

It is used for handling variety of free flowing solids. Material is fed past the upper return chain. It then falls on the bottom trough; the chain gently drags the material on special UHMWPE liners provided on the bottom trough towards the outlet. When material is fed to the conveyor it lays on the bottom, which has a abrasion resistant lining, the moving drag chain forces the material towards discharge. In case there is overflow of the material, built-in overflow device throws it out; if it is beyond acceptable limit, the limit switch stops the motor.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity M3/Hr</th>
<th>TPH for wheat B.D.O. 76T/M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC150</td>
<td>2 - 15</td>
<td>2 - 12</td>
</tr>
<tr>
<td>ICC200</td>
<td>53</td>
<td>40</td>
</tr>
<tr>
<td>ICC 250</td>
<td>79</td>
<td>60</td>
</tr>
<tr>
<td>ICC 300</td>
<td>131</td>
<td>100</td>
</tr>
<tr>
<td>ICC 350</td>
<td>170</td>
<td>130</td>
</tr>
<tr>
<td>ICC 400</td>
<td>3.2</td>
<td>160</td>
</tr>
<tr>
<td>ICC 500</td>
<td>330</td>
<td>170 - 250</td>
</tr>
</tbody>
</table>
Material Receipt

Flexible Screw Conveyor

The flexible screw conveyors offer efficiency and versatility, conveying bulk materials ranging from large pellets to sub-micron powders—both free-flowing and non-free-flowing—with no separation of blended products.
Material Receipt

Jumbo Bag Discharge system

INDPRO supplies the bulk bag unloader and related equipment with a intensive focus to provide safe, efficient, and complete bulk bag unloading and handling. It is designed so the operator never stands directly under the bulk bag during all phases of positioning and discharging the big bag's materials.
Material Receipt

Bag Dump Station

INDPRO bag dump stations facilitate the integration of manually dumped dry bulk materials into all types of bulk material processing equipment, including material mixers, agitator hoppers and bulk storage bins, size reduction equipment, and dry bulk material conveyors. Bag dump stations allow for efficient, manual introduction into processing operations of small volumes of dry bulk material from containers such as small bags, buckets, and totes.
Pre Cleaning

As the name suggests the purpose of the equipment is raw cleaning. Seeds/Grains are fed into inlet hopper where they are evenly distributed by a feed roller and drop through a controlled gate on the top sieve. Before falling on Top Screen, grains are subjected to primary aspiration, which drains off chaff, straw, dust and deceased grains. Material is then passed through three-sieve layer for separation according to width and thickness. Sieve perforations are kept cleaned by specially designed rubber balls. Final product and impurities are collected separately through discharge chutes sieve layer for separation according to width and thickness.

- The aspiration chamber is fitted with one waste auger.
- The screen system consists of one Sieveboat with 1 short scalping screen layer (1 screen part) and 2 long grading/sand screen layers (2 screen parts).
- The machine has an integral fan, fixed speed drive, and motors.
- The machine is of steel construction with sieveboat of laminated wood.

<table>
<thead>
<tr>
<th>Modell</th>
<th>IE-600</th>
<th>IE-800</th>
<th>IE-1000</th>
<th>IE-1250</th>
<th>IE-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor, Fan (K.W.)</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>5.5</td>
</tr>
<tr>
<td>Motor, Sieveboat (K.W.)</td>
<td>1.1</td>
<td>1.1</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Screen Size (L = 1000 mm X W) mm</td>
<td>600</td>
<td>800</td>
<td>1000</td>
<td>1250</td>
<td>1500</td>
</tr>
<tr>
<td>Screen Area (M²)</td>
<td>3.0</td>
<td>4.0</td>
<td>5.0</td>
<td>6.25</td>
<td>7.50</td>
</tr>
<tr>
<td>Estimated Capacity (t/h)</td>
<td>15</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>
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- The machine is fitted with inlet feed roll.
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<table>
<thead>
<tr>
<th>Modell</th>
<th>IE-50</th>
<th>IE-60</th>
<th>IE-70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor, Fan (K.W.)</td>
<td>5.5</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Motor, Sieveboat (K.W)</td>
<td>1.50</td>
<td>2.20</td>
<td>2.20</td>
</tr>
<tr>
<td>Screen Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( L = 1000 mm X W ) mm</td>
<td>1000</td>
<td>1250</td>
<td>1500</td>
</tr>
<tr>
<td>Screen Area (M2)</td>
<td>8.0</td>
<td>10.0</td>
<td>12.0</td>
</tr>
</tbody>
</table>
Grain Storage Silo

Flat bottom

Hopper bottom
Classifier

Classifier is an equipment used for cleaning and classifying grain and other granular materials; for removing adhering dirt and impurities such as dust, sand, earth clots, insect fragments. Removal of coarse and fine impurities by screening and separation of low-density matter by the aspiration channel or the air-recycling aspirator.
Cleaning Equipments

Magnet Separator

A powerful permanent magnetic field uniformly covers the entire drum width to ensure maximum tramp iron removal. The smooth stainless steel shell with single wiper strip assures positive tramp iron discharge and a minimum of product carryover on powdery or cohesive materials. They are available in 12-36" (305-915 mm) diameters. Replaceable auxiliary shells are available and recommended where highly abrasive materials are being handled.

Drawer Magnet
Cleaning Equipments

Destoner

The product fed through an air shut-off gate after preliminary cleaning by gravity. The product passes on to an inclined oscillating deck. The deck is designed as screen; through which an upward current of air is passed with the help of a blower. This results in fluidizing the product. Due to their different specific gravities, the heavy particles such as stones sink to the bottom of this layer of fluidized material, while the lighter particles supported by the cushion of air, float on top. The oscillating action of the screen causes the heavy particles to work their way to the upper end of the deck. There is an adjustable counter of air, this causes the final separation of heavy particles from light material, and the stone discharged. The air volume can be adjusted to achieve the optimal degree of separation.
Weighing Equipments

Inline weigh scale

The product fed through an air shut-off gate after preliminary cleaning by gravity. The product passes on to an inclined oscillating deck. The deck is designed as screen; through which an upward current of air is passed with the help of a blower. This results in fluidizing the product. Due to their different specific gravities, the heavy particles such as stones sink to the bottom of this layer of fluidized material, while the lighter particles supported by the cushion of air, float on top. The oscillating action of the screen causes the heavy particles to work their way to the upper end of the deck. There is an adjustable counter of air, this causes the final separation of heavy particles from light material, and the stone discharged. The air volume can be adjusted to achieve the optimal degree of separation.
Milling

Roller Mill

The integrated measurement and control of the particle size distribution keeps the grinding effect at the optimum. It remains at its optimum irrespective of fluctuations in raw material and operator skills / availability. An optimum grinding range at lowest possible energy input. The continuous measurement and control ensures an increased flour yield and consistently high product quality. Safety has a very high priority for both: end product quality as well as for the entire grinding process.
Milling

Hammer Mill

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**Sieving**

Turbo Sifter

Designed to meet high-capacity sifting for bulk handling with maximum efficiency. A combination of high centrifugal force and blade spreading action reduces binding problems of tricky materials. These are ideal for sizing, sifting, scalping, classifying, and product conditioning applications.
Components

Flour Silo
Components

Bin activator
Designed to overcome all flow related problems like Bridging, Rat holing of Bulk Solids in the storage vessels like bins, hoppers, silos, depending upon the characteristics of material.

Salient Features
• Available in wide range to take care of any material stored in any sized and shaped vessel.
• Specially developed fixtures & tooling ensures concentricity within various parts.
• Careful design of Suspension Hangers to give complete resilience to the vibrating dish head. Sturdy design to take care of machine load and material head load.
• High performance and low energy consuming
• Vessel assembly with bolting or welding option.
• Well-equipped laboratory for optimizing equipment configurations.
• Available in Mild Steel, SS304 & SS316 as
Weighing Station
In line weighing

Hopper Weighing System

The general idea of hopper scale is to place load cells under each foot of the tank/hopper/vessel, then connects the load cells to a weighing controller through a junction box which is used to compensate the signal difference of the load cells. The weighing controller is able to display the weight value after the system is calibrated, the indicator is equipped with relays output, 0-5V/0-10V/4-20mA analog output and communication port for automation control purpose.
Weighing Station

In line weighing

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Control Panel

Hi-tech Micro controller based technology with fast response..
Overloaded Protection.
Impact Load Protection.
Auto zero tracking.
Stainless steel weighing pan.
In-built battery back up with SMF rechargeable battery.
Low power Indication.
M. S. Checkred Platform (optional).
Components

Divertor Valve

Knife Gate

Slide Gate
Components

Rotary Air Lock Valve (Fall Through)

The Equipment is a volumetric feeding device designed to feed solids in pneumatic conveying system. The basic use of the rotary airlock feeder is as an airlock transition point, sealing pressurized systems against loss of air or gas while maintaining a flow of material between components with different pressure. The Rotary Airlock Valves are also widely used as volumetric feeders for metering materials at precise flow rates in industries where dry free-flowing powders, granules, crystals, or pellets are used. The application range of rotary airlocks is from gravity discharge flow from Storage silos, Cyclone separator and precision feeding devices for dilute phase and continuous dense phase pneumatic convey systems.
Components

Rotary Air Lock Valve (Blow Through)

Blow through valve has been designed to meet the rugged demand of pneumatic conveying system. It is used to regulate the flow of dry powders, dusts and granular products, while maintaining airlock condition. However, this offers distinct advantages, in that it introduces high pressure conveying air through the valve body and rotor pocket, ensuring high efficiency throughput with a low effective pressure drop.
AIR POLLUTION CONTROL

Bag / Dust Collector Unit

Sintered Plate Element Filter Unit
Complete systems solutions in filtration: all from one single source!

Filter elements:
- HSL
- DELTA
- DELTA²
- ALPHA

Other media:
- DFF
- Micro

Filter units/plants:
- Standardized and customized

Applications:
- Food
- Pharmaceuticals
- Chemical
- Petrochemical

Analyses & Investigations
- Measuring technique
- Customer-oriented trainings
- Advisory & Consulting
Principle Of Operation
Filter Medium

Filter Bags
- Diameter 160 mm, length 1m to 4m
- Application Specific Cloth material
- Cleaning Pressure 6 Bar
- Good Flexible strength
- Outlet Emissions less than 10 mg

Filter Cartridge
- Diameter 150 /225/327 mm
- Application Specific filter material
- Cleaning Pressure 4 Bar
- Good Flexible strength
- Outlet Emissions less than 10 mg

Sintered Element Filter
- Length 750 to 1500 mm
- Polyethylene PTFE coated
- Cleaning Pressure 4 Bar
- Rigid Body Element
- Non Fibrous
- Suitable for product recovery
- Outlet emissions up to 0.2 mg
Sinter Plate Filter Element

- HSL up to 70° C
- HSL-C up to 100° C
- DFF MicroCoat
- Herding® DELTA
- Herding® DELTA²
- Herding® ALPHA filter up to 450° C
Herding® DELTA/DELTA² filter element

- **stainless steel bar**: to stabilise filter element and support the system
- **DUPLEX-gasket**: specially designed to reliably separate raw gas from clean gas
- **Surface-coating**: is embedded in pores of PE matrix to form a microporous surface
- **compact rigid body**: for abrasive and fine dusts
- **filter element**: capable of being washed, regenerated, recycled, lint free
- **hollow space**: enlarged for reduced pressure drop
- **corners**: good cleaning performance
- **filter area**: relatively large area of 1.82 to 4.75 m²
- **reinforcement**: to stabilise and locate filter element
- **basic material**: consist of seamless sintered PE
- **Surface-coating**: good cleaning performance
Panel design for large units
Bag/Cartridge as filters
2 Years life of filter medium*
Outlet emissions low as 10 mg
Contains fibres
Perfect for Dust Collection
Moderate input cost
High maintenance cost
Resistance to Temperature upto 250ºC

SAMAIIR® Filter Units

Panel design for large units
Rigid body Elements
10 Years life of filter elements
Outlet emissions low as 0.2 mg
Contains no fibres
Perfect for product recovery
Low maintenance cost
Resistance to Temperature upto 85ºC

Herding® Filter Units

*Please note that the life of the filter medium may vary depending on usage conditions.
Applications-SAMAIIR®

CHEMICAL – Dyes, SAP, Specialty Chemicals
FOOD – Sugar, Flour, Malt, Adjunct, Protein Powder
DAIRY – Skim Milk Powder, Whole Milk Powder
PETROCHEMICAL – Resins, Additives, HDPE, LLDPE, PP, PE
PLASTICS AND POLYMERS – CaCO₃, TiO₂, Dolomite, Al₂O₃, Talc
AUTOMOBILE – Battery Production
AIR POLLUTION CONTROL

Applications-Herding® Pharmaceuticals
Constructive Explosion Protection

Pressure relief of dust explosions“ according VDI 3673

Surpression of dust explosions“ according VDI 2263 Part 4

Explosion-proof design pressure shock resistant or pressure resistant
Retrofit of bag filters to Herding® sinterplate filters

Benefits for the user:

- Smaller space requirements (space reduction: approx. 40%!)
- Constant operating conditions
BAGGING & PALLETIZING

Solutions & machineries:

Weighers of:

- **Gross weight**: Weighing and filling at the same time
- **Net weight**: Weighing previously to filling

**PB:** Gross Weigher

**CC-800:** outputs up to 2,000 bags/hour

**PN:** Net Weigher

**KID-BAG**

**CSA**
Solutions & machineries: Big-Bags

Big-Bags:
GROSS or NET filling station designed for manual or automatic operations:
- Outputs: up to 50 T/hr
- Weight range: from 500 to 2000Kg
- Product type: powders, non-free flowing, granulates, flakes,...
Head Office & Works:

INDPRO ENGINEERING SYSTEMS (PVT) LTD
Gat No-281/1, Plot No-29, Taluka-Mulshi Pirangut, Pune-412111

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Thank you!