



sophisticated technology
for
bulk material handling



Competence in material handling system



Started its operation way back in 1984 for manufacturing Plastics Extrusion machinery, now Prasad Group has India's largest and most sophisticated infrastructure for manufacturing Plastics Ancillary Equipment and Automation Systems.




Pneucon Solution is the project company who partners with you for total process to optimise your bulk solids handling with automation in most cost effective way. Whether it is completely new plant or expansion, restructuring or up-gradation, Prasad Pneucon has everything you need from ONE source.

Projects executed : 250 nos.
 Experience combined : German, Italian & Indian
 Total R & D : 150 Men Years
 Current Team : 20 Engineers

That's why we say "Competence in Material Handling System"



PVC pipes & profiles



PVC Fittings



Masterbatch Compounding



Cable Compounding



Polymer Compounding



Wood Plastic Composite



Silo and Central storage system

Installing silo for homogeneous flow need detail material characteristics and particle analysis. We design, manufacture & erect silos from 10 tons to 300 tons in stainless steel. All the silos are adhered to strict countrywide rules & regulations depending upon wind force, seismic zone and land structure.

To save transport cost & extra administrative expenses, we not only provide customer the original drawings of silo but also help in selecting local fabricator. Our support ensures that your silos are fully integrated with our accessories & Silo feeding system.

Silos feeding system

Options are selected based on country and logistic system of raw material supplier. In country like India, feeding directly from tanker or flexi-liner is not available so our Jumbo bag & 25 kg bag emptying station is directly connected to silo via pneumatic conveying system.

Silo with load cell and control system shows your current stock and also indicates you when to order new material.





Jumbo bag unloader and emptying station

Our big bag unloader is offered in both the options like hoist or forklift. Combo delta model gives you flexibility of emptying 25 kg. and jumbo bag into one.

Optional bag messaging pads, air fluidiser and rubber bed ensure leak free sealing for handling sticky and non free flowing powder.



Small bag unloader and 25 kg. bag emptying station

25 Kg. bag emptying station connected with individual or central de-dusting system make sure that your floor remains clean and each gram of powder from your bag is utilized. With our strong and modular structure you can always add Jumbo bag unloading at later stage and integrate it with main system.



Conveying system - Powder Loader

- Total stainless steel construction for all the contact parts.
- Digital pressure monitoring for filter and vacuum system.
- Automatic JET FILTER washing - no need for manual cleaning.
- Central Control panel with PLC and touch screen with Audio & visual alarm.
- Output up to 3000 Kg./Hr. for conveying up to 150 meters distance.



"Cartridges filter with carbon fiber antistatic coating with removable mechanism from top without using any tools."

Additive weighing

With advancement in polymer compounding, correct formulation is the key to success. With right selection of conveying and feeding system one can greatly decrease the labour, eliminate wastage, nullify the error and can improve bottom line significantly. All minor ingredients are weigh separately to maintain high accuracy.



Liquid feeding

Liquid weighing system with separate pump and buffer containers are used for the precise weighing of high-viscosity liquids. Liquid storage containers are given with circulation and heating system in case of temperature sensitive viscous liquid has to be dosed.

Components & Accessories

Prasad Group with its partners has developed proprietary system components and accessories approved for plastics, food and pharmaceutical applications, these accessories are for pipe dia 60 mm to 125 mm and cater output up to 20 tons per hour.

Components are the most essential organs of plant and not only sourced from world renowned suppliers but also available ex stock from us after years of operation.





Mixers automation

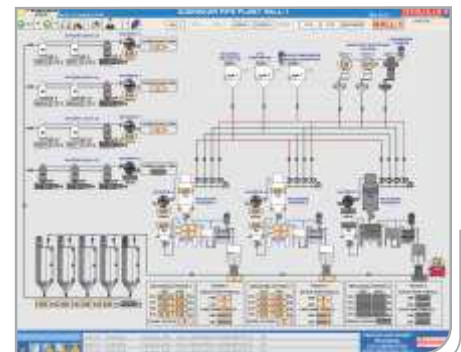
Accurate feeding, batching and metering of bulk solids begins with precision weighing. Our weighing system on top of the mixer ensures batch to batch consistency and increase your production up to 40%. Whether you are using jumbo bag or small bags, using silo or manual dumping station, adding one additive or multiple; we have comprehensive equipment range exactly suitable for you.



Central Control & SCADA System

Intelligent, self correction and safe are the key factors to design the control system. All the components are selected to perform under tough & dusty environment. Operator gets all the important data of his plant at the tips of finger via graphics touch screen.

Pneucan Supervisory System is total material management system for any plant. This futuristic software combining all the controls, PLCs and displays into one and generate numerous reports for your MIS. It can be integrated with your ERP, excel sheet, remote diagnostics via secure server and real time updating you through SMS via GSM module.



- *Measuring*
- *Communicating*
- *Memory Storing*

- *Documenting*
- *Controlling*
- *Reporting*

- *Calibrating*
- *Integrating*
- *Regulating*

- *Logging*
- *Printing*
- *Connecting*

Pneucon Lab - Nothing is impossible

With continuous development in polymer technology newer materials are invented with better dispersion and more adhesion. It means you are playing with finer particle size and more cohesive property. No plant head would experiment system directly to check if it's working.

At Prasad we have invested heavily in Pneucon Lab with various pipe sizes from 80 mm to 125 mm up to 160 mtr conveying distance. No project leaves factory without testing thoroughly to simulate YOUR plant condition.

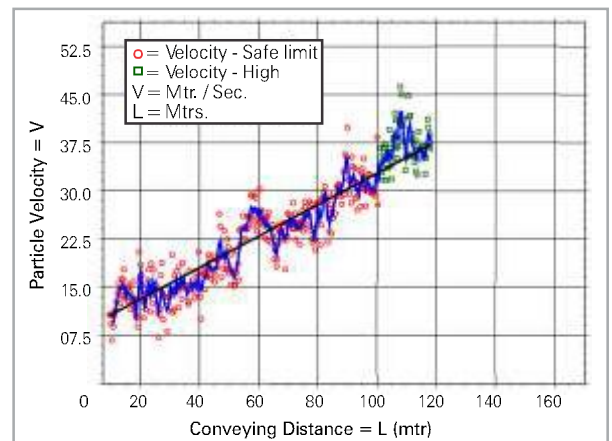


Send us your challenging material or sample for analysis. We will run it on our pilot plant and submit you test report free of cost.

PNEUCON SOFT - Optimise conveying

For all standard materials our PneuCon Soft always design optimum sizing. Multiple plant inputs are fed and system will not only generate pressure graph but also gives you material conveying velocity curves. Decades have been spent in development of such software which ensure that your material always convey gracefully with minimum energy consumption.

PNEUCON SOFT - OPTIMISATION OF SYSTEM											
Input Data	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit
Air Flow Rate	CFM	1000	CFM	1000	CFM	1000	CFM	1000	CFM	1000	CFM
Material Bulk Density	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³
Conveying Distance (L)	Mtr	100	Mtr	100	Mtr	100	Mtr	100	Mtr	100	Mtr
Material Particle Size	µm	100	µm	100	µm	100	µm	100	µm	100	µm
Material Moisture	%	0	%	0	%	0	%	0	%	0	%
Material Cohesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Adhesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Angle of Repose	°	30	°	30	°	30	°	30	°	30	°
Material Bulk Density	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³
Material Particle Size	µm	100	µm	100	µm	100	µm	100	µm	100	µm
Material Moisture	%	0	%	0	%	0	%	0	%	0	%
Material Cohesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Adhesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Angle of Repose	°	30	°	30	°	30	°	30	°	30	°
Material Bulk Density	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³	1500	kg/m³
Material Particle Size	µm	100	µm	100	µm	100	µm	100	µm	100	µm
Material Moisture	%	0	%	0	%	0	%	0	%	0	%
Material Cohesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Adhesion	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m	0.01	kg/m
Material Angle of Repose	°	30	°	30	°	30	°	30	°	30	°



Various applications demand specific attention, practical experience and in-depth process knowledge. Whether it is bridging CaCO₃ or sticky TiO₂, whether its fluffy wood powder or flow less Carbon black, feeding accurately and conveying reliably is the routine job for our engineers.