

## Brief Introductory on Automatic Material Handling System

### 25 Kg. – 50 Kg. Bag / Big Bag Dumping Station :

- Suitable to feed 25 / 50 Kg. Bag manually.
- Also easy for handling Jumbo Bag of PVC Resin / CaCo3 by Crane, Hoist and Fork Lift.
- Easy to connect with Vacuum Conveying System.
- Conical Bottom to have free flow material.
- Big Bag Resting hood provided.
- Anti Dust reverse jet cleaning system incorporated for healthy environment in CaCo3 hopper.



### Vacuum Conveying System (For Major Components) :



- To convey the Material from Material Dumping Station to Vacuum Silo this is mounted on top of the lid of High Speed Heater Mixer.
- Conveying Distance upto 30 meters with approx. 3 long radius bends ( Vertical + Horizontal ).
- Conveying capacity : approx. 3000 Kg./hour.
- Anti Dust reverse jet cleaning system for dust free environment.
- Special PTFE Coated Antistatic Cartridge Filter for easy cleaning.
- Compressed dry air provided with sequence timer to keep system clean and better conveying of material.
- Vacuum Silo with vibratory hammer for free flow of material discharge, proximity switch, level probe, pneumatically operated feeding valve to feed Heater Mixer.
- Minor components can be conveyed from Material Storage Hopper to Weighing Hopper by Screw type feeding driven by geared motor.

### Weighing System (For Major and Minor Components) :

- To weigh the required quantity of major components like PVC Resin, CaCo3, other powder material accurately those come from feeding system through vacuum.
- Also to weigh the required quantity of minor components like Stabilizer, TiO2, One Pack etc... accurately to feed into High Speed Heater Mixer.
- Material can be weighed with 3 Nos. of beam type load cells.
- Weighing monitoring and controlling unit provided.



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### Liquid Metering and Weighing System :

- To convey the low viscous liquids like DOP, CPW, Soya Oil etc... from Liquid Storage Tank to Mixer by volumetrically.
- Tank is made from S.S. 304
- Load Cell Base Liquid Weighing and dosing system is available.
- For adjustment of quantity a pulse counter is provided by which quantity of addition can be calibrated.
- Easy to couple with High Speed Mixer.
- Save quantity of expensive liquid additives.



### Anti Dusting System :

- To remove the odor, moisture, dust while mixing in Heater Mixer and Cooler Mixer feeding / discharging.
- Anti Dust reverse jet cleaning system for dust free environment.
- Dust collection Box below the system that can also reusable.

### Pressure Conveying System :

- Ideal solution to feed the PVC Resin / Dry Blend / Powder material to Silo.
- Conveying Capacity approx. 2500 / 5000 Kg/hr.
- Conveying Distance approx. 30 Meters with 3 Nos. of long radius bends (Vertical + Horizontal).
- Material to be fed in to Storage Silo from source.
- Level Probes for ensuring the emptiness of System.



### Storage Silo :

- To Store the Raw Material like PVC Resin, Calcium Carbonate, PVC Dry Blend/Compound and other free flow powder material.
- Silos are made from MS, MS & SS, SS 304 or aluminum with required storage capacity – upto 50 Tons.
- Silo reverse jet filter cleaning system can be provided for Dust Free healthy environment.
- Silo weigh and weight monitoring system provided.
- Multiple processing lines feeding from the Silo can be provided.
- Indoor or outdoor erection of the Silo is possible.



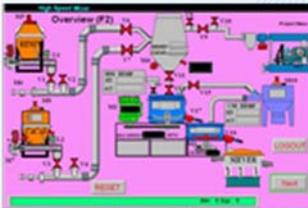
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### Hopper Loader Vacuum Conveying System :

- To convey dry blend / powder from Storage Silo / Bin to Extruder Hopper.
- System is mounted on top of Extruder Hopper.
- Suitable models available as per extruder output capacity.
- Anti dust reverse jet cleaning system for clean healthy environment.
- PLC operated state of the art Electric Control Panel.
- Level Probe for ensuring the emptiness of material from Silo, pneumatically operated feeding valve to feed Extruder Hopper.



### Automation of Compounding Plant with PLC / SCADA System :



- Easy to control on production, planning, supervision and inventory control with process recipe management.
- Complete automation right from 25 Kg. Bag / Jumbo Feeding Station to distribution of material of multiple processing lines.
- Integrated malfunction message system with option for manual operation.
- The Complete systems run on PLC (Programmable Logic Controller) with various safeties and processing interlocks.
- SCADA software – From you can assess the daily/weekly/monthly reports of total production, material to be consumed, batch recipe, printing, break down alarm can also easily viewed online from any location on computer monitor etc....
- Operation of complete system views on computer screen.

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