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News from Bry-Air

Drying • Conveying • Blending

VOLUME 16

Bry-Air and Plastics Industry Partners in Progress...

Thank you for your continuous support and encouragement throughout the years, which has enabled us to provide the best of the drying technology to the plastics industry.

With our passion for innovation and growth, we have been continuously raising the bar by providing the latest technological developments to you. We will keep focusing on designing, engineering and manufacturing of quality products tailored to your needs.



Witness.....
Smart Drying Solution for New Age Plastics
at Bry-Air Booth B4, Hall 9



I AM AN AIRGINEER!!

Thank you for visiting us at



IPLX 2018, Hyderabad



Wire India 2018, Mumbai



Ind Plas 2018, Kolkata

Smart Drying Solutions for New Age Plastics

It happens all the time. Moisture trapped inside the plastic granules can not be removed. It can cause following problems.

- ❖ Surface appearance
 - Moisture splay marks
 - Silver streaking
 - Gas bubbles
 - Surface defects eg. craters
- ❖ Physical properties
 - Loss of tensile strength
 - Loss of impact strength
 - Loss of elongation
 - Poor melt flow

The above problems can result in a distorted, defective end product

With enhanced standard of living, the demand for plastics has witnessed exponential growth over decades. Largely, the key attributes of high demand are its versatility, affordability, convenience and ability to mould in any form.

Due to its moulding abilities, it is valued by various industries such as packaging, electronics, medical devices, automobile, aerospace and many more. However, this moulding ability is highly dependent on proper plastics drying techniques and solutions.



Often, the plastic processors face material rejection, cracking, surface lines etc.

Most of these plastic products are not dried properly during manufacturing to meet the maximum permissible limit of moisture for desired products. Hence the problem lies in proper plastic granules drying.

Plastic granules drying is an important step for ensuring quality of a plastic product. Plastic granules absorb moisture during manufacturing, conveying and storage. The excessive moisture in plastic granules can result in a sub-standard product, both in terms of appearance and its mechanical properties.

Bry-Air Solution

Bry-Air offers Honeycomb Resin Dryer which ensures plastic granules drying up to maximum permissible limit before processing. It works on the principle of Honeycomb technology, where the honeycomb based desiccant rotor adsorbs the moisture from the plastic granules.

The parameters of plastic granules drying process are drying time, air flow, temperature and dew point. The temperature, drying time and air flow are dependent on the type of plastic granules. However, if the dew point cannot be maintained, it can affect the quality of moulded component. Dew point plays a very critical role in creating a lower vapour pressure around the surface of the resin. This lower vapour pressure forces the moisture in the molecular chain to disappear out to its surface. Only Bry-Air Resin Dryers can guarantee upto -65°C as consistent dew point.



Easy way out for plastics material handling - Centralised Conveying System

Plastics material handling is an integral part of most plastic processing operations. In the conventional system at large units, the plastic granules are manually loaded or transported to respective area using the trolley. This may increase the conveying issues like:

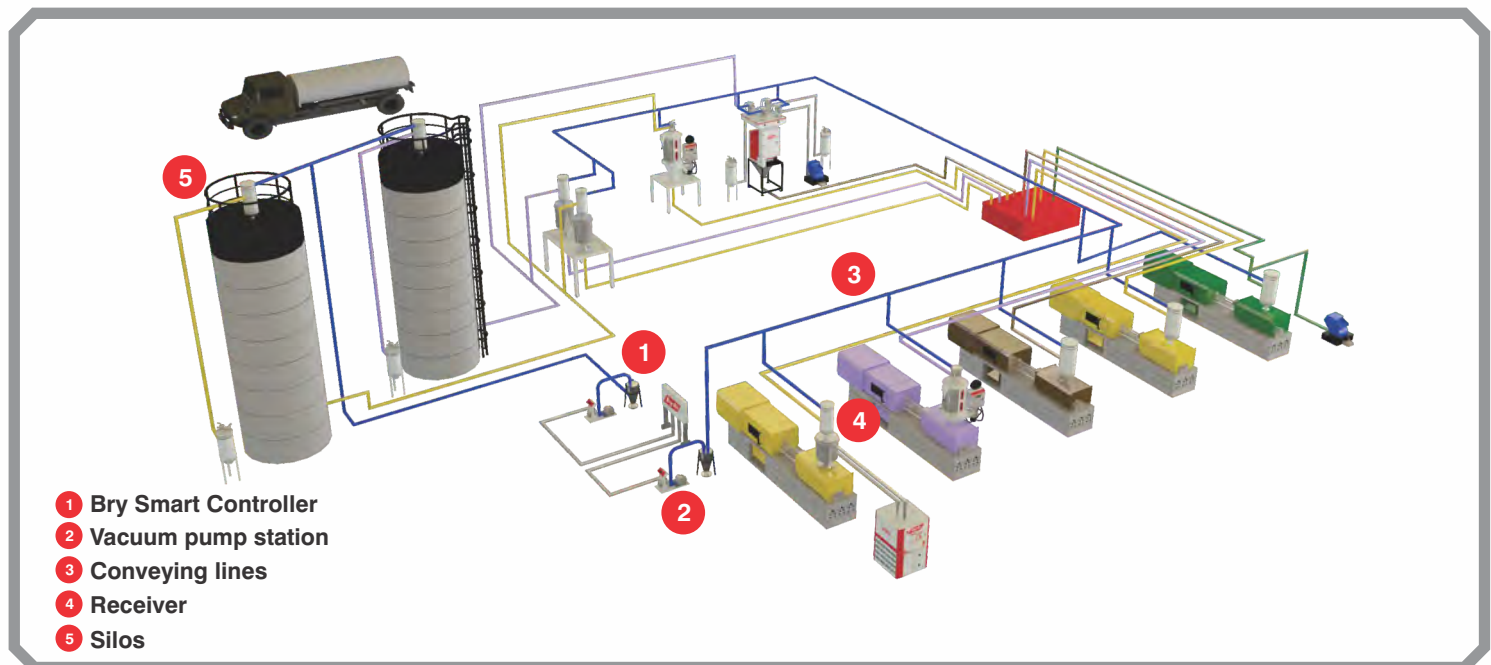
- Higher labour cost for manual loading and unloading
- Higher transportation cost with use of trolleys
- High maintenance cost
- High spillage and wastage due to manual feeding
- Higher production cost and frequent downtime
- Movement of trolleys on shop floor increase the risk of accidents

Bry-Air Advantage

This centralised system reduces wastage and ensures correct material goes to the correct process machine/receiver. Some of the other advantages are:

- Automated transfer of plastic pallets from shipping container to storage bin to dryer to processing machine
- Quick changeover of material that saves time
- Eliminate chances of spillage, wastage and accidents
- Ease of operation

A well designed and properly installed conveying system can prove to be an asset



Bry-Air Centralised Conveying System ...BCS Series

Bry-Air provides simple and automatic conveying system with ease of plastic material granules conveying, which has been specially designed to ensure process continuity at the plastic processing operations.

The Bry-Air Centralised Conveying System comprises three major elements - BrySmart controller, the Regenerative Vacuum Pump and the Receiver. BrySmart Controller is the brain of the automated conveying process. It connects each receiver to central regenerative vacuum pump station. It has a touchscreen panel for monitoring and controlling the complete system. The next element is regenerative vacuum pump which generates the airflow to pull the granules and conveys them to the receivers. The receiver's primary job is to separate granules from the airflow and transfer them to a destination. This central conveying system reduces operating cost, increases productivity and product quality.

The automated Bry-Air Centralised Conveying System ensures increase in productivity by ensuring

- ✓ **Right** material at
- ✓ **Right** place at
- ✓ **Right** time

Let us work to make the Indian Plastics industry world-class!

Bry-Air works closely with many domestic and international companies in the Plastics industry. To keep our readers in the plastics industry updated, we will feature from time to time articles regarding concerns, problems and updates written by some stalwarts in the industry.



Little Actions Big Results

See, Learn and Grow

- By Mr. Shirish V Divgi, MD, Milacron India

Organisations work hard continuously to identify strategies and new initiatives that enhance performance, which in turn results in growth. These strategies are driven in well-planned and structured methods, either through internal competencies or by getting help from external experts. The paths vary as per the situational needs and challenges of a particular organisation. Irrespective of the challenges and goals, we all know that the most important parts is to get all the employees motivated and involved not only to contribute wholeheartedly, but also to deliver as a team. Although teamwork ultimately can deliver results, the individual's attitude and spirit of collaboration to create a learning atmosphere cultivates a winning culture.

As we all work in various conditions and times with different people, we come across some wonderful and effective lessons for success, provided we are open to learn and unlearn. The great learnings, listed here, are derived from observations of people and situations that are instrumental in developing both, self-learning employees and effective organisations. A quick summary:

- Trying our best to be on time and plan schedules in advances as best as possible.
- Being open to learning from all conversations or moments
- Respecting other's views. We may not agree with everyone, but respecting others' views may open the door to a positive outcome.
- Communicating with clarity and precision while not going into unnecessary explanations. Giving our best and being transparent in our communications with others.
- Not to confuse others when we don't have a clear answer, rather promise to find out and come back promptly.
- Observing surroundings keenly will make us realise many opportunities for improvements.
- Not criticising people openly, instead getting to the crux of the matter with facts and figures will help people realise their mistakes on their own.
- Being watchful of a person's body language to gauge their level of interest during the conversation. A smile can start the interaction on a positive note, and showing humility during the conversation leads to positive outcome
- Always approaching situations with a helping attitude, instead of using force or dominating others.
- Not showing off one's ability to led in every situation, but examining our strengths and those of others to encourage their leadership skills with a supporting and learning attitude
- Never try to win arguments; keeping silent sometimes increases other's respect for you, thus giving them time to realise the facts.
- Being fair in everything you do, playing favourites will not contribute to a learning atmosphere.
- Always be fully prepared before any meetings; this helps us to put our point across faster and attain the best possible outcome.
- Do not leave pending things to our memory, better to be organised with a list of 'Things to do'. Small forgotten points can cost us dearly in the future.
- Not to be impulsive in our thoughts, speech and decisions. Thinking it over twice may lead to a better we form an opinion. It may change depending on the situation.
- Never judge others from you from our perspective, but taking time to observe and understand them before we form an opinion. It may change depending upon the situation.
- Being sincere in whatever we do and not taking any short cuts.
- Keeping the surrounding clean.
- Instilling a sense of passion in others by personally setting an example in order to succeed as a cohesive team.
- Taking care of our mind and body as we need both to become a positive and responsible person. An effective strategy is having 8 hours of work, 8 hours of leisure and 8 hours of sleep.
- Compassion for others is a characteristic of a good human being, which is also foundational virtue of a good leader.

It is not easy to practice these learnings in a fast-paced work life. However, being aware of these good practices and trying our level best to include them in our routine will definitely take us further on the path of success with an impression of respect.

A motivated and passionate person can inspire a team, a motivated team can inspire many around us. We need to be successful as a country in our products and services, and we practice the above basics as disciplined and good human beings, we can be world-class.



Leaders in Dehumidification... Worldwide

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