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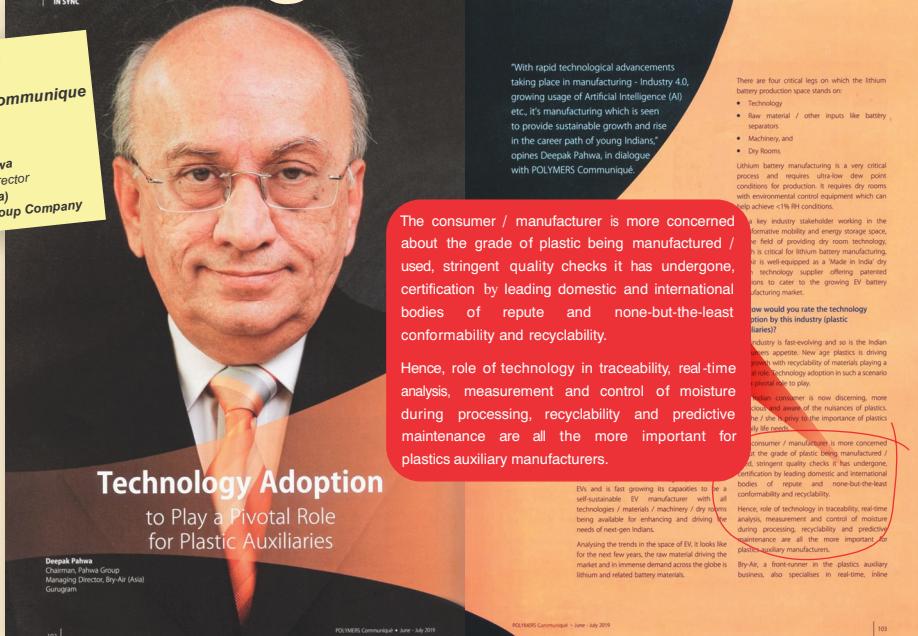
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VOLUME 17

Industry Insights

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by:
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a Pahwa Group Company



Technology Adoption to Play a Pivotal Role for Plastic Auxiliaries

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Managing Director, Bry-Air (Asia)
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In conversation with Polymer Communique Magazine, Mr. Deepak Pahwa provided industry insights on latest technology advancements, trends and new day offering to Plastic Auxiliary industry.

"With rapid technological advancements taking place in manufacturing - Industry 4.0, growing usage of Artificial Intelligence (AI) etc., it's manufacturing which is seen to provide sustainable growth and rise in the career path of young Indians," opines Deepak Pahwa, in dialogue with POLYMERS Communique.

The consumer / manufacturer is more concerned about the grade of plastic being manufactured / used, stringent quality checks it has undergone, certification by leading domestic and international bodies of repute and none-but-the-least conformability and recyclability.

Hence, role of technology in traceability, real-time analysis, measurement and control of moisture during processing, recyclability and predictive maintenance are all the more important for plastics auxiliary manufacturers.

(D) is a fast growing as capacities to be a self-sustainable EV manufacturer with all technologies / materials / machinery / dry rooms being developed for drying, dehumidifying and drying needs of next-gen Indians.

Analyzing the trends in the space of EV, it looks like for the next few years, the raw material driving the market and immense demand across the globe is lithium and related battery materials.

There are four critical legs on which the lithium battery production space stands on:

- Technology
- Raw material / other inputs like battery separators
- Machinery, and
- Dry Rooms

Lithium battery manufacturing is a very critical process and requires ultra-low dew point conditions for production. It requires dry rooms with specific humidity control equipment which can help achieve <1% RH conditions.

A key industry stakeholder working in the automotive mobility and energy storage space, the field of providing dry room environments, especially for lithium battery manufacturing, is well-equipped as a "Made in India" dry technology supplier offering patented solutions for the growing EV battery manufacturing market.

How would you rate the technology application by this industry (plastic auxiliaries)?

Industry is fast-evolving and so is the Indian market. New age plastics is driving the market with recyclability of materials playing a vital role in technology adoption in such a scenario.

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Hence, role of technology in traceability, real-time analysis, measurement and control of moisture during processing, recyclability and predictive maintenance are all the more important for plastics auxiliary manufacturers.

Bry-Air, a front-runner in the plastics auxiliary business, also specializes in real-time, inline



these growth areas for long and has developed some very fine products to cater to your new age plastics requirement.

Q. Drying, conveying and blending for the plastics industry. Any disruptor technologies that the industry in future can witness?

The current business scenario is very fast, every now and then there is a spurt of some technological advancement / breakthrough which has created ripples in the industry. Some survive the test of time, some die out fast and some are there to stay for long.

Major technological advancements which are primarily driving the customer and market are here to stay, but in the long run will show its impact. Industry 4.0 is one such disruptor technology and its role in plastics auxiliaries

To support this fast-evolving and ever-changing Indian and overseas plastics growth, we do believe the top three business opportunities for auxiliary manufacturers currently are:

- Moisture Analysers
- Predictive Maintenance, and
- Drying and Conveying

do you consider as the most pivotal period for your business?

There is no such pivotal period in my business when I recall. The only times I do remember, are when I started with the company, though and we have survived through very good times as an organization, believe in innovation in technology and business processes and that has been the driving philosophy of the Pahwa Group over the years. We have filed 123 international patent applications in 13 new technologies (since 2007), of which 46 patents have been granted / allowed already.

POLYMERS Communique • June - July 2019

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- Delivering < (-) 40°C Dewpoint even at 70°C Rotor Inlet
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 - Up to 40% reduction in **process heat** requirement
 - Improved performance without spending on cooling energy
 - Reduced utility and installation cost
 - Gives the unit great mobility
 - No air-to-air HEX for pre-cooling
- Breakthrough in
Bry-Air Honeycomb
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**Witness Live Demonstration of
centralised drying and conveying at Plastivison 2020**

Bry-Air®
Centralised Drying System

For multiple hopper locations to raise efficiency and improve economies of scale.

**"No Need for Separate Dehumidifier
for Each Hopper"**

Bry-Air®
Centralised Conveying System
BCS series

Developed to create a no spillage, no wastage, clean and accident free shop floor by ensuring.

**"The Right Material at the Right Place ...
at Right time"**

Invitation

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In this fast pace and innovative plastics industry, we need to adapt the latest technological advancements in order to deliver better and competitive end products to the consumer. Central system technology where all requirements are fed to a centralised system, that can respond to different demands from different hopper/equipment.

Bry-Air, being a specialist in dehumidifying and drying offers centralised drying and conveying solutions. Maintaining central dryer/system is more efficient rather than handling multiple dryer/processing machines. It can reduce maintenance and operating cost.

Centralised Drying System

Bry-Air Centralised Dehumidifying drying system consists of a plastic dryer, supplying dehumidified air to a row of medium sized machines with mounted drying hoppers. Such system are a practical alternative to individual machine dryer when total drying requirements are large.

Benefits

- Provides flexibility of drying different materials at different temperature as one dryer connected to multiple hoppers can dry multiple materials at different temperatures simultaneously
- Can be customised for special applications like PET processing, Optical fibre cables
- Designed to ensure -40°C/F dew point with reduced energy consumption.
- Comes with user friendly digital controls

Bry-Air drying system has been providing Zero defects drying of resins before the component area processed. Thus ensuring the quality of final components.

Industrial Applications

- Automobiles
- PET
- Medical Plastics
- Wires and Cables
- Electricals
- White Goods

Driving efficiency through centralised drying & conveying

THE POWER OF CENTRALISED CONTROL



Centralised Conveying Solution

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

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 pellets 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

Automated conveying of plastic resins leads to ease of material handling

Bry-Air understands best, the need for high precision drying and conveying to manufacture plastic products.

Bry-Air has the capability and the equipment to provide single system, centralized control systems and custom design plants. Bry-Air system gives you complete control over your process and materials. Customers vouch for their reliability and productivity, so that you avoid unexpected downtime or quality issues. Find the confidence that comes with keeping your plant up and running profitably.

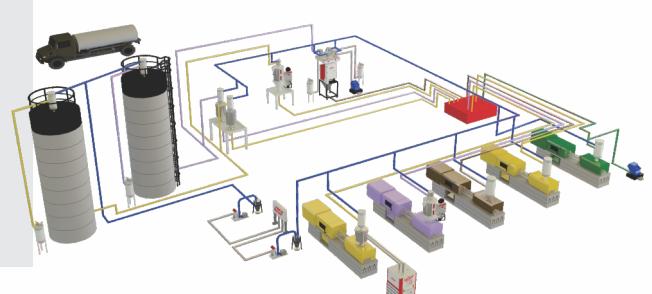


Bry-Air® Centralised Drying System

For multiple hopper locations to raise efficiency and improve economies of scale.
"No Need for Separate Dehumidifier for Each Hopper"

Bry-Air® Centralised Conveying System BCS series

Developed to create a no spillage, no wastage, clean and accident free shop floor by ensuring.
"The Right Material at the Right Place ... at Right time"



Backed by Brycare™ Service

Other products to be displayed during Plastivision



Mould Dehumidification System MDS series



Incorporating
BRY-WHEEL™
based on Honeycomb
Technology

Designed to prevent mould sweating
and increase productivity.



Nano Dryer



30% less power consumption than
conventional dryer.

Integrated with hopper body. No extra
footprints required for dryer.



SWISS + MADE
BRYSCAN® series



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moisture content down to 5PPM.

Inline Moisture Analyzer

Thank you
for
visiting us at



Complast 2019, Sri Lanka



K-show 2019, Germany



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