



One stop shop for plastic auxiliaries

ECOPLAST

...News from

Bry-Air

An ISO 9001 Company

1 Inaugural Issue

WELCOME TO THE ECOPLAST FAMILY!!

We have been in touch with you through the 'Dryfacts' every quarter and have felt your need for a more focused information vehicle for plastics.

The first issue of 'EcoPlast' is dedicated to the expanding plastics industry and to all our customers who have made it possible for us to become "A One Stop Shop for Plastics Auxiliary Equipment" from a "dryer" company. 'EcoPlast' will endeavor to bring you news and information from the growing world of Plastics Auxiliary Equipment.



We hope 'EcoPlast' will enjoy the same support from you as 'Dryfacts' has all these years and this issue is the first of many to come. 'Dryfacts' will continue to cover Dry Air stories while 'EcoPlast' will focus on plastics.

We look forward to your views. Please e-mail to us your opinion on this very first issue at enquire@pahwa.com.



Plastics in the new millennium

There has been a change in the air !! As the plastics industry gears up for the next millennium, the EcoPlast team has totally oriented itself to the market needs, vertically aligning the marketing division to the engineering group to provide maximum benefit to the industry.



New Initiatives to support the Plastics Industry

■ "PACT" Plastics Auxiliary Centre for Training

Recognizing the need for zero downtime in Plastics Processing Industry, the EcoPlast team came up with another "first". "The Bry-Air EcoPlast PACT - Plastics Auxiliary Centre for Training" has been created to familiarise and orient the Industry with various aspects of processing.

The first series of the programme was customised for the maintenance personnel of our customers. The training programmes, attended by maintenance engineers from Pearl Polymers, ISPL, Bharatiya Cutler Hammer, Dabur, Polyset, Usha Beltron, amongst others, have received extremely positive feedback from the participants.



A "PACT" session in progress

■ This is just the tip of the iceberg

Lookout for....

- The next issue of "EcoPlast" for more news on innovative concepts from the Bry-Air-Arctic India Sales Team to support your needs better.

● Our booth at

Plastindia 2000



Feb. 19-24, 2000.

■ Bargain of the Month

The "Bargain of the Month" scheme was introduced to help the plastics processors update, upgrade and expand their production effectiveness. The scheme benefited hundreds of processors to take a quantum jump in their processing quality.



Driving Towards Excellence



It is easy to spot the "Plastics" in the picture above!

Plastics are being increasingly used in automobiles today, because of their sheer versatility and flexibility.

Plastics are light in weight, do not rust or corrode, have a high impact strength, are heat resistant, can be produced in attractive colours and moulded into stylish shapes. These are few of their properties which make them so popular with automobile manufacturers. This has resulted in many major commodity plastics processors turning into specialised moulders for auto components with high levels of quality consciousness.

UNDERSTANDING PLASTICS

Plastics are being used in automobiles in 3 major areas-



● **Interior Components** like dash board, steering wheel, body panels, instrument panel, vent grills, console etc.



● **Exterior Components** such as bumpers, bumper beam, rear spoilers, front panel, headlight/tail light assembly, fuel tank, radiator grills, design logos, number plates etc.

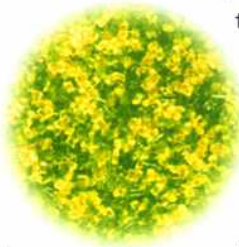


● **Bonnet Components** such as radiator fans, radiator caps, water tanks, air cleaner housing, battery casing etc.

Auto components are processed using techniques like resin transfer moulding (RTM), reaction injection moulding (RIM), two component moulding, blow moulding, typically, using PC-ABS, PBT, Nylon 6/6 GF Nylon, Noryl Mineral filled PP, EPDM, SMA & Transparent nylon-12, Acrylic etc.

And this is where Bry-Air enters the Picture.

To mould an auto component to the required quality, a whole host of auxiliary equipment are needed to support the processing effectively and play a major role in the final quality of finished component. Bry-Air Plastics Auxiliary Equipment has helped many automobile component manufacturers to support their principals effectively. For instance, when APM, Malaysia faced the problem of improper drying of ABS/Acrylic resin used in the components for Proton Kembara or when Tata Automotives faced the problem of drying, in components used for Mercedes Benz, they looked to Bry-Air for a solution.



Crite Zero Defec

If resins are not processed under right condition, defects like splash, silver streaking, loss of impact and tensile strength, uneven colouring etc. become inherent resulting in the loss of the very characteristics for which plastics are preferred and, above all, rejection of finished parts.

- **Conveying:** Resins can get contaminated while being manually conveyed.
- **Drying :** Improper drying prior to processing affects the final product quality.
- **Dosing/Blending :** Finished parts look "blotchy" if colour batches are improperly blended.
- **Temperature Control:** Improper temperature control during moulding again leads to product loss.
- **Mould Sweating:** causes the final component to have defects.

To ensure minimum rejects, shorter production cycles and the final product quality, it is an absolute must to use the right support equipment i.e. auxiliary

Helping you to win in the Market Place

Automation speeds material handling at **Dabur**

Dabur, the manufacturer of the popular herbal hair oil "Dabur Vatika", is launching a new brand of herbal oil, which will be packaged in PET bottles. Dabur has its own captive PET processing plant where PET bottles for packaging this new brand of oil are manufactured.



Dabur uses Nissei moulding machines to process virgin PET resins and has installed Bry-Air Ecodry Dehumidifying Dryers, of different models, for ensuring proper drying of resins prior to processing.

Dabur has totally automated the conveying between the storage bins and moulding machines with a 4-station Bry-Air EcoMove Centralised Conveying System. The system helps Dabur to save on time as well as labour, increase productivity and maintain a clean shop floor. The Bry-Air EcoMove Centralized Conveying Systems provide all the benefits of a central system with the added convenience of portability, low

maintenance and incorporation of the latest technical features. This complete Conveying System provides automatic loading (upto 8 stations) of 3000 lb/hr (1350 kg/hr), and also for a maximum conveying distance upto 240 ft (73 metres).

via for Processing

equipment during processing.

Enter Bry-Air

The Bry-Air Ecomove Auto Loader and Centralized Conveying System helps to automate the conveying and loading of the resins from the bins to the processing machines, while the Bry-Air Ecodry Dehumidifier Dryer or Hot Air Dryer (as may be the requirement) help to dry the resins for quality processing.

The exact blend of colour is provided by the Bry-Air Maguire Gravimetric Blender or the Bry-Air Ecolblend Volumetric Doser, while the Bry-Air Ecotemp Mould Temperature Controller and Chiller ensures maintenance of the 'right' temperature.

And the problem of mould sweating is eliminated by the Bry-Air EcoDry Mould Dehumidification System.

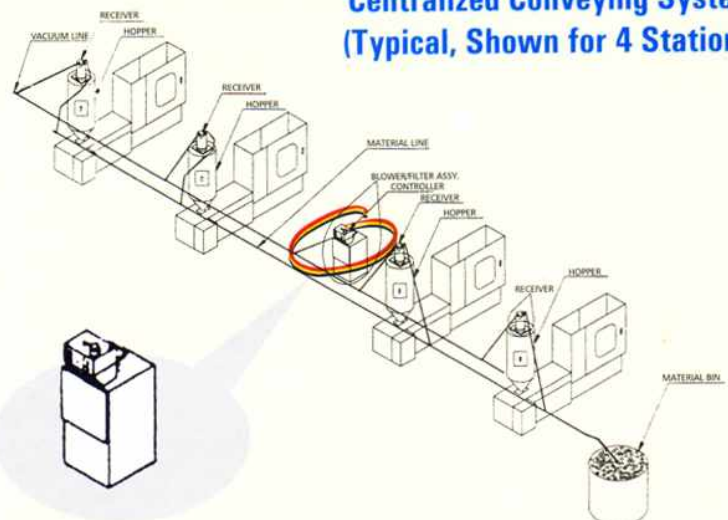
The Bry-Air Ecoplast family enables you to ensure that the plastics resins are moulded into quality final products.

"Drying PET chips with Bry-Air Dehumidifying Dryers reduces cycle time as well as improves quality".

"Conveying with EcoMove helps to save time, manpower and material cost".

Sanjay Srivastva
Executive - Production, Dabur

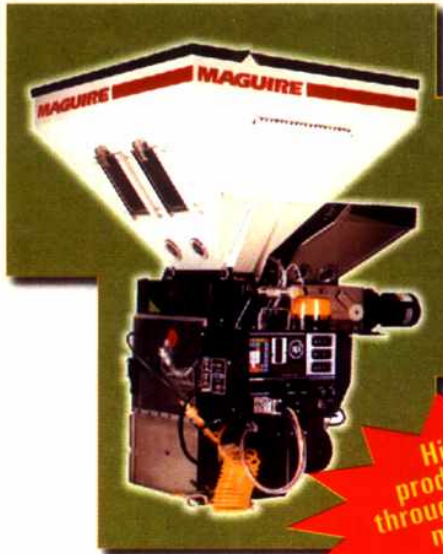
Centralized Conveying System (Typical, Shown for 4 Stations)



Products from

PAHWA
ENTERPRISES

Bry-Air
MAGUIRE Gravimetric Blender



SALIENT FEATURES

- All Material Metered by weight.
- Advanced Dispense Technology.
- Very Simple operation
- Immune to Vibration
- Automatic Recalibration.
- Direct Setting of Percentages; No calculations.

Higher productivity through advance material management

ECC DRY



ECC COOL



ECC FRESH



ECC PLAST FAMILY!!

Drying & Conveying

- Dehumidifying Dryers
- Hot Air Dryers
- Hoppers & Auto Loaders
- Centralised Conveying Systems

Recycling

- Granulators
- Shredders

Dosing & Blending

- Volumetric Dosers
- Gravimetric Blenders

Temperature Control

- Mould Temperature Controllers
- Chillers

Specialities

- Mould Dehumidification System
- PET Drying Package
- Robotics



Bry-Air

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