



Plastic Tomorrow

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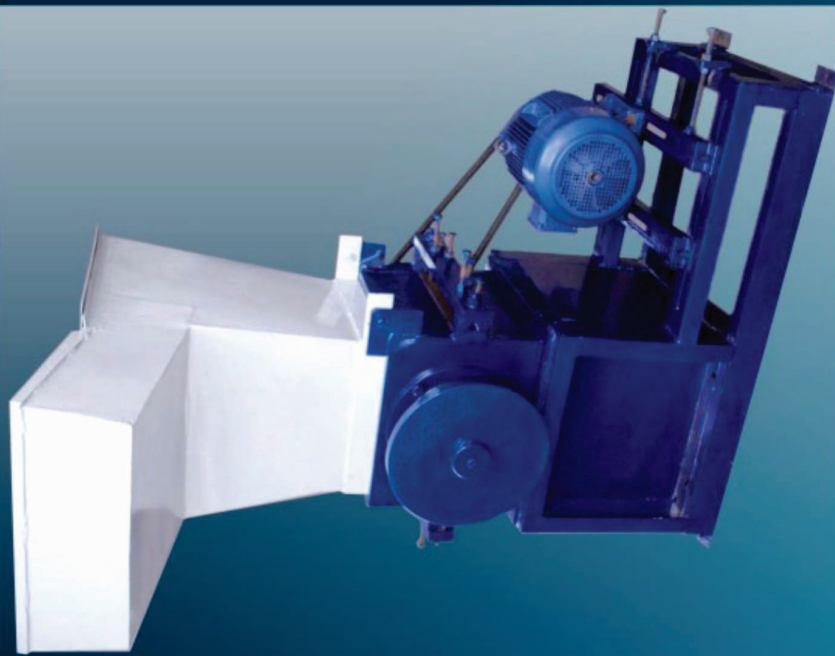
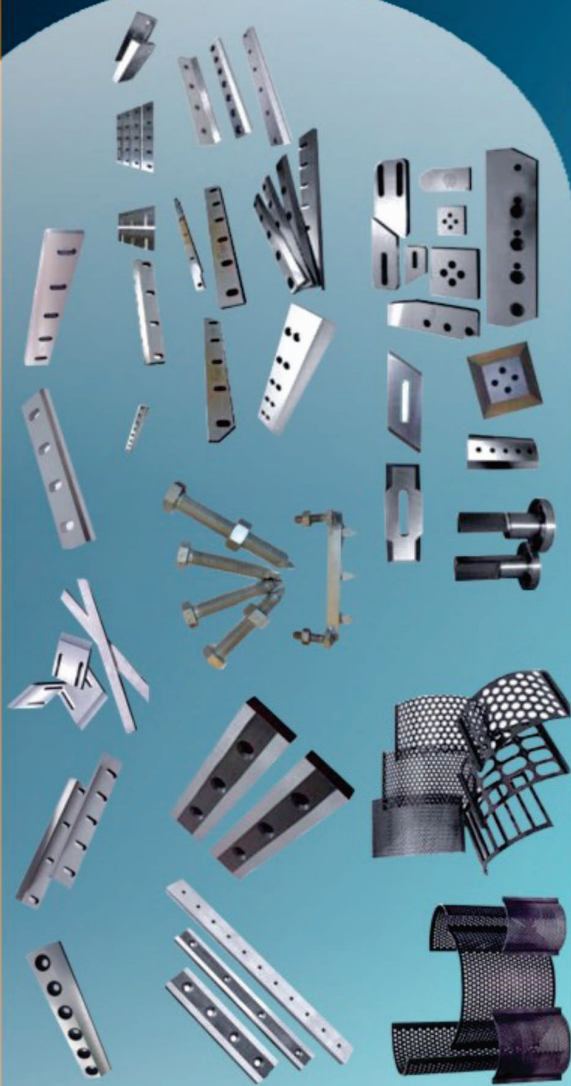


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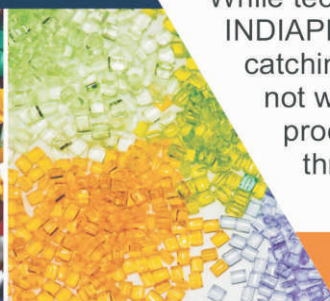


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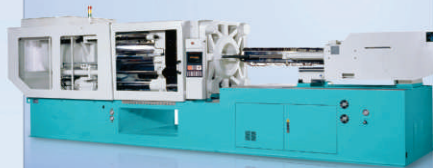


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Moog Launches New Version of the D680 Series Proportional Valve with a Direct Drive Closed-loop Pilot Valve for High Dynamics, Repeatability and a Long Service Life

East Aurora, NY, USA, October 08, 2018 – Moog (NYSE: MOG.A and MOG.B) – a designer and manufacturer of high performance motion control products, solutions, and services, has launched a new version of the D680 Series Proportional Valve.

Moog's D680 Series Proportional Valves are throttle valves for 2-, 3-, 4- and 5- way applications, suitable for electrohydraulic position, velocity, flow and force control in hydraulic systems. The D680 product range has integrated electronics, and is suitable for applications with high dynamic response requirements. The newly launched version in this series is a two-stage valve with a closed loop controlled D633 Direct Drive Servo Valve as the pilot stage. This latest version of the product provides increased dynamics, repeatability and is more robust than the existing version, making it suitable for use in even the most demanding environments.

The D633 Direct Drive Servo Valve pilot stage with open loop control has been available for many years. Moog developed the new version in conjunction with machine builders in the plastics metal forming, presses and steel production sectors, better to meet the needs of these applications. The new pilot stage option is ideal for applications requiring high dynamic performance, where longer service life and energy efficiency are critical.

The Moog D680 Series Proportional Valve series is a proven design that provides reliable control for machinery in industries such as injection and blow molding, die-casting, steel production, metal forming and presses and lumber processing. This product range can be easily integrated in new designs, and configured to meet the exact application and performance requirements of industrial machinery and equipment. In addition to the existing series' proven dynamic performance, the latest D680 Proportional Valve design is robust, reliable, has the benefit of a long service life and can offer significant energy savings.

Dr. Marco Wiegandt, Moog valve development engineering manager commented, 'Our customers in the injection molding, die casting and metal forming and press markets trust the performance and reliability of Moog's Servo valve products. Some of our lead customers have enjoyed greater repeatability and a long service life by using this energy-efficient, robust design. In machine applications where high accuracy and repeatability are required, the new D680 Series Proportional Valve with a closed loop D633 pilot valve is an excellent choice.'

For more detail.

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www.moog.com/industrial

COURTESY

Archroma reinforces its strength management solutions dedicated to packaging and tissue paper with Cartastrength® DST.03

Reinach, Switzerland, 27 September 2018 - Archroma, a global leader in color and specialty chemicals towards sustainable solutions, today announced the introduction of its new Cartastrength® DST.03 for stronger packaging and tissue papers and improved stickies management during the production process.

Archroma is already well known in the paper industry for its portfolio covering the needs of packaging and paper makers, in particular with its solutions for colors, barriers & coatings, whiteness and strength.

With its focus on increasing performance and sustainability for its customers, both during the manufacturing process and in the end product, Archroma is committed to introducing innovations especially aimed at making fast-growing sectors - such as packaging and tissue paper - more sustainable.

Archroma has been active in the field of increasing wet and dry strength of packaging and tissue paper under the tradename Cartastrength®, particularly targeting recycled fiber. Cartastrength® agents increase the stability of corrugated fiberboard and allow manufacturers to achieve higher levels of dry strength with lower amounts of fiber.

The Cartastrength® range can also be used in the fast growing tissue segment, allowing customers to produce stronger kitchen wipes and napkins. The product replaces starch which can make the tissue less harsh and also reduce COD loadings in the effluent as a consequence.

The new Cartastrength® DST.03 takes strength

management to a whole new level by bringing a solution to paper and board manufacturers that combines enhanced dry strength and improved stickies management.

Cartastrength® DST.03 is an efficient dry strength liquid additive, suitable for all paper and board grades, especially beneficial where recycled fiber is the main raw material. It is ideally suited for fine paper grades, including décor, tissue with fully bleached fiber, or wastepaper and brown packaging manufactured from old corrugated containers (OCC).

John Cowman, Technical Manager at Archroma comments: "At Archroma we are committed to continuously challenge the status quo in the deep belief that we can make our industry sustainable. That is what we are doing with innovations such as Cartastrength® DST.03, a new chemistry that enhances the strength of board and paper, whilst allowing the easier processing of recycled fibers."

He adds: "Everybody benefits from an innovation starting from a core belief: Paper makers with a more efficient production process, consumers with an enhanced end-product, and the environment due to reduced effluent load". Cartastrength® is a trademark of Archroma registered in many countries.

For more detail.

www.archroma.com

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ReVital Polymers, Pyrowave and INEOS Styrolution partner to launch closed-loop North American polystyrene recycling consortium

Halifax, Nova Scotia, Canada and Frankfurt am Main, Germany

- Three industry leaders collaborate to close loop by recycling single-serve polystyrene packaging
- Advanced recycling technology will help to reduce amount of polystyrene packaging going to landfill
- Canadian solution to tackle the global problem of plastic pollution in waterways and oceans

Today at the **G7 Ministerial Meeting on Working Together on Climate Change, Oceans and Clean Energy**, three industry leaders involved with post-consumer packaging recovery – ReVital Polymers, Pyrowave and INEOS Styrolution – announced a strategic partnership to recycle polystyrene packaging collected in consumer curbside and depot recycling systems as well as other sources such as restaurants, offices, schools and universities.

The collaboration will use advanced recycling technology pioneered by Pyrowave that will close the loop by recycling single-serve polystyrene packaging and utilizing recycled polystyrene in the manufacturing of new products and packaging. This Canadian solution will not only reduce the amount of polystyrene packaging going to landfill, but will also address the global problem of plastic pollution in marine environments.

Polystyrene is mostly known for its use in foam and rigid packaging, containers, cups and utensils commonly used for food and beverage delivery in supermarkets and take-out food service. By enabling this ground-breaking recycling chain, ReVital, Pyrowave and INEOS Styrolution will change the way post-consumer polystyrene packaging is recycled in an integrated, restorative and regenerative manner that maintains the material's highest utility and value within a circular economy.

ReVital Polymers Inc., located in Sarnia, Ontario, is a member of the Circular Polymers Group, and a North American leader in processing post-consumer plastics. ReVital will install Pyrowave's Catalytic Microwave Depolymerization (CMD) technology as part of its plastics recycling process. Pyrowave's award-winning microwave machine will convert ReVital's sorted post-consumer polystyrene packaging to a liquid that contains plastic building blocks, called monomers, which will then be used by INEOS Styrolution.

INEOS Styrolution is a global leader in styrenics that manufactures and supplies polystyrene for various food service packaging applications and consumer goods products. INEOS Styrolution will process the material from ReVital and Pyrowave in a final step to return it to virgin resin that can be made into any new polystyrene application.

Pyrowave's technology, the connecting link between the ReVital and INEOS Styrolution, provides a process that makes polystyrene infinitely recyclable even with colour additives and food residue.

"This is a game changer for consumers and for municipal and industrial, commercial and institutional recycling programs," said Keith Bechard, Chief Commercial Officer at ReVital Polymers Inc. "Polystyrene packaging, regardless of colour, food residue or odours, can be successfully added to recycling programs. When these materials are shipped to ReVital, they will be recycled into a high-value material that closes the loop. For ReVital, this

project is an opportunity to increase our range of acceptable feedstock, increase the recovery rate for residential and commercial recycling programs and increase our value proposition to customers." The three companies are committed to reducing the amount of plastic waste that ends up in landfill or contaminates the world's waterways and oceans.

"Although we know there is a lot of polystyrene waste around us, surprisingly the challenge we face is the lack of available material because it is not properly recovered," said Jocelyn Doucet, CEO of Pyrowave. "Pyrowave's technology expands the range of acceptable polystyrene feedstock, making it possible to build a new value chain that links ReVital's processing expertise with INEOS Styrolution's global end-market capacity."

The Pyrowave process is an example of how innovation in diversion technology goes beyond resin-to-resin recycling technologies. Bechard noted: "These new technologies can improve recovery capabilities, drive our societies closer to zero waste and enhance circular economy objectives. We are very excited to bring our years of expertise in large-scale plastic recycling operations to support the commercialization of Pyrowave's technology. We want to be the leader in adopting new circular technologies applied to recycling and our expertise in innovation makes it a perfect fit for our company."

The industry would like to send the signal that post-consumer polystyrene can now be accepted through various collection programs. New technologies like Pyrowave are generating chemicals that are used by the manufacturers as feedstock to make new products and close the loop.

"INEOS Styrolution is extremely excited about this project, which brings together major players across the value chain with a smart solution to recycle polystyrene through new innovative technologies," said Ricardo Cuetos, Vice President Americas, Standard Products, INEOS Styrolution America LLC. "Chemical recycling enables us to close the loop and prevents valuable waste from entering our lands, waterways and oceans."

Polystyrene is versatile, inexpensive to produce, lightweight to transport and has a low carbon footprint compared to other packaging materials. The insulating properties of foam containers helps keep food at the desired temperature. But this material, like many other single-use packaging applications, suffers from poor recycling rates due to major limitations in recovering and utilizing soiled post-consumer containers.

The support from the public and private sector has been essential in developing Pyrowave's technology and this project will continue to generate economical value and create and maintain jobs in the plastic recycling industry while strengthening the development of a more sustainable chemical industry. This project shows that innovative technologies developed in Canada can enable new circular business models, create new economical benefits and help solve a growing global environmental problem.

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COURTESY

LATEST LESSONS OF IN-SERVICE DATA TO BE REVEALED AT AMI's WIND TURBINE BLADE MANUFACTURE 2018

The conference will take place in Düsseldorf

AMI, BRISTOL 15th October 2018 – The wind turbine blade industry continues to change as it grows. Top manufacturers and turbine makers will be discussing and presenting their latest developments at the 9th annual conference on Wind Turbine Blade Manufacture 2018, which will take place from 10th to 12th December 2018 at the Maritim Hotel in Düsseldorf, Germany. The conference will kick off as usual with a market analysis by Cristina de Santos, Energy & Infrastructure Unit Manager with **AMI Consulting**. This year, the presentation will summarise the main conclusions of AMI Consulting's 2018 research on the industry.

China continues to be the largest blade manufacturing country in the world, with market leader **Sinoma Wind Power Blade Co Ltd** accounting for over 7% of global blade production in 2017. AMI is honoured to host Sinoma as it delivers its first presentation at a European event on the key challenges facing Chinese blade suppliers. **Innogy**, one of Germany's leading energy companies, will also provide delegates with an overview of rotor blade requirements from an operator's point of view.

Blade length will also be up for discussion. Longer blades increase rotor swept area, optimising power output per turbine. This continues to be crucial for decreasing the cost of energy production, though it has also presented the industry with design and manufacturing challenges. **LM Wind Power**, the leading blade manufacturing company in the world, will share its view on these issues. The session will also feature presentations from **Winfoo**, **Fraunhofer** and **Nordex**. **Winfoo**, a spin-off from Lund University in Sweden, will present an innovative potential solution to the production and shipping challenges faced by blade producers trying to meet the demand for ever growing blade length. **Fraunhofer**, Europe's largest application-oriented research organisation, will explain why they recommend open source CFD as a way of improving blade design. Finally, **Nordex** will close the session with an analysis of the increasing strength requirements for blade root connection.

With the industry continuing to be labour intensive, testing and quality control are also important in reducing energy costs. **R&D Test Systems A/S**, a Danish engineering and consulting company, will present on single and multi-axis fatigue testing for large blades. **Applied Polymer Developments (APD)**, the British centre of excellence for the development and testing of composite materials, will introduce FTIR spectroscopy as a tool for quality control.

Material innovation is another topic covered, with **Gurit** introducing its new core materials for blade weight, cost reduction and sustainability. In addition, attendees will benefit from a better understanding of existing materials thanks to a combined paper authored by the **DTU** and **Dr. Povl Brøndsted**, a well-known expert in the wind blades composites market. Fatigue degradation mechanisms in composite materials used in blade production will be explored.

Blade manufacturing and potential production efficiencies, the core focus of the conference, are also fundamental when analyzing the cost of energy. And it is clear that the longer the blade, the more complex the manufacturing challenge. The second day will begin covering this topic with a session chaired by Dr. Povl Brøndsted. The first presentation of this session, delivered by Danish company **MHI Vestas Offshore**, will share the main implications on the design of offshore blades when taking into consideration the challenges faced during the production phase. In addition, the world's second-largest independent blade producer, **TPI Composites**, will share their latest developments on the optimisation of wind turbine blade manufacturing processes using optical project systems.

One area that has seen significant change in recent years is the production of spar caps, with an increase in the use of pultrusion. An assessment of business cases and challenges regarding the use of pultrusion will be shared by **STRUCTeam**, a British technology consultancy offering services within composites application markets.

Automation and Industry 4.0 have played a significant role in the development of other sectors, and these concepts also appear to offer avenues for further decreasing the cost of wind energy. **Vestas**, a global blade producer well-known for its continued focus on innovation, will examine wind turbine blade digitisation. Following this, the introduction of data generated by sensors installed for the monitoring of leading edge erosion and analysis of top coating performance will be covered by **Aerox Advanced Polymers** and the **University CEU Cardenal Herrera**. The session, one of two chaired by Mr. Sandro Di Noi, R&D manager for **Suzlon**, will be closed with an update from **Sandia National Labs** on its robot-deployed wind blade monitoring system.

Another driver of lower energy costs is improvement in the service life of blades. As the industry matures, more historic information on blade failure is becoming

available. Analysis of this data is vital for the continuous improvement of blade design and production. **DNV GL** will share its root cause analysis on blade failures. This will be complemented with a big data analysis of rotor blade damage, presented by **WKA Blade Service**, a German company with extensive experience of blade repair and maintenance services.

The final session will mirror that of previous events, with wind blade recycling dominating the discussion. A joint presentation between **Conenor** and **Delft University of Technology**, "Closing the loop for wind turbine blades", will conclude proceedings.

Wind Turbine Blade Manufacture 2018 (10-12 December 2018, Maritim Hotel Düsseldorf, Germany)

The full programme can be found on AMI's website:

www.amiconferences.com

COURTESY

EVERY DENNISON PRESENTS 'ONE SOLUTION 4 ALL' DIGITAL FILM—AND IT'S PVC-FREE

OEGSTGEEST, the Netherlands — September 10, 2018 — Among the latest materials science innovations from Avery Dennison Graphics Solutions is a PVC-free wrapping film designed to cover a vast range of different applications.

Engineered for vibrant colour pop and great conformability, the new MPI 1405 Easy Apply RS™ film accommodates applications ranging from vehicle wraps to challenging textured building surfaces, including brick and concrete blocks.

Oliver Guenther, senior director marketing and channel strategy for Avery Dennison, said that a single film for so many applications makes installers' lives easier: "The print performance and stretchability of

this PVC-free material makes it a straightforward choice for applications where looks really matter, and where there are challenges arising from irregular curves. Durability and dimensional stability are outstanding, and it can be printed on latex, UV and solvent/eco-solvent —we recommend a clear PVC-free overlaminate, such as DOL 6460."

Easy Apply RS™ adhesive technology ensures simple air-egress, repositionability and slideability for faster installation.

More details on the new range are available at: MPI 1405 PVC-free Film : <https://graphics.averydennison.eu/mpi1405>

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ŠKODA AUTO uses Omron's fully autonomous transport robot at Vrchlabí plant

The autonomous robot contributes to the continuous improvement of work safety in Vrchlabí and helps to minimise work risks. It recognises people crossing its path as well as other vehicles and stationary obstacles.

- A fully autonomous transport system carries parts between the mechanical measuring centre and processing machines
- A guided tour is all the robot needs to grasp its route and environment
- Digitalisation and Industry 4.0 are cornerstones of ŠKODAAUTO's 2025 Strategy

As a key cornerstone of its 2025 Strategy, ŠKODA AUTO is rigorously advancing the digitalisation of its production process. As of now, the Czech car manufacturer is using a fully autonomous, self-learning transport robot from Omron at the Vrchlabí component plant. This robot is able to recognise obstacles along its journey through the plant and to incorporate other information from its surroundings when planning its route. If necessary, it changes its course to always get to its destination as quickly as possible. It thereby contributes to further improving safety at work and the efficiency of transport processes at the plant.

"It's been a conscious decision to use ŠKODA AUTO's first fully autonomous robot at the Vrchlabí plant. With it, we're once again highlighting the plant's key significance as an ultra-modern high-tech location," said ŠKODA AUTO Board Member for Production and Logistics, Michael Oeljeklaus. "With the new transport system, we are consistently continuing to introduce technological innovations at our plants in keeping with Industry 4.0," added Oeljeklaus.

On one trip, the transport robot can carry a load of up to 130 kg and chooses the correct paths fully autonomously. Unlike traditional automated transport systems, it does not require lane guidance in the form of induction loops, magnetic strips or reflectors. To learn the route, the vehicle only needs to be guided between the stations once via a tablet or joystick. In doing so, it captures its environment as well as changes to its surroundings all by itself and adapts its route if necessary.

Sophisticated, state-of-the-art technology enables the robot to navigate its environment: using sensors and laser scanners, it recognises vehicles and stationary obstacles as well as people crossing its path. The control system calculates the approach speed and detects if a collision is imminent. In this case, the robot stops by itself or takes evasive action. Unlike other systems used at ŠKODAAUTO,

it immediately adjusts its route based on information from its surroundings, without having to stop in the process. If the fully autonomous robot detects that it will regularly encounter obstacles at a specific point along its journey, it changes its route permanently. If necessary, the electrically powered system is able to travel to all of the destinations at the Vrchlabí plant, which covers 16,000 m².

The robot completes 120 trips per day and travels a total distance of 35 km on its route between the mechanical measuring centre and the processing machines. The testing and pilot phases have already been completed; the robot is in regular use at the factory starting from June 2018.

The increasing production numbers at ŠKODAAUTO translate into higher utilised capacity for the plants and more traffic in the production areas. The autonomous robot contributes to the continuous improvement of work safety in Vrchlabí and helps to minimise work risks.

In production, ŠKODA AUTO is systematically turning to technology from Industry 4.0, such as cooperating robots. These are used in the production of direct-shift transmissions at the Vrchlabí plant and support the employees with one of the most sensitive tasks in transmission production –inserting the gear actuator piston. A handling robot also supplies dozens of machines with parts and returns empty containers to the warehouse. The extensive 'transparent factory' IT system also forms part of operations.

ŠKODA AUTO defined the digitalisation of products and processes as one of the cornerstones of its 2025 Strategy. Further central areas of activity include the electrification of the ŠKODA model range, the conquering of new markets and the brand's expansion into new business areas relating to traditional car manufacturing through the addition of various mobility services.

Omron

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COURTESY

Jigish Doshi elected as President of Plastindia Foundation for 2018-21



Ravish Kamath takes over as Vice President and Jayesh Rambhia as Treasurer

Mumbai September 28, 2018. In the elections held on 21st September 2018 for the new Managing Committee of Plastindia Foundation, Jigish Doshi was elected as the President, Ravish Kamath as Vice-President and Jayesh Rambhia as Treasurer of the Plastindia Foundation. All were selected unanimously. The new Managing Committee comprising of senior entrepreneurs of the Plastics industry assumed office with immediate effect. Jigish Doshi took over from K K Seksaria.

Plastindia Foundation is the apex body of Nine key all-India Plastics Industry Associations. Indian Plastics industry contributes to more than Rs 2,70,000 crore to the exchequer. With consumption of Polymer approximate 17 to 18 Million ton in Virgin quantity and approximate 27 Million ton in (Virgin + Reprocess) mix usage quantity, it is one of the top five industries contributing to Indian GDP.

Jigish Doshi, is a technocrat Chemical Engineer with over 34 years experience in manufacturing of various products of Plastic Industries. He is Past President of GSPMA (1994-95) and CMD of Vishakha Group. Ravish Kamath is associated with the Woven sacks / FIBC industry for the past 35 years, and is the current Chairman of the Plexconcil. He is CEO of Big Bags International Pvt Ltd from Mangalore. Jayesh Rambhia has been on board of PlastIndia Foundation since 2012. He was chairman for Innovation Pavilion at PLASTINDIA 2018 and was instrumental to get 'Save Food Campaign' using plastic packaging from Interpack Germany to PLASTINDIA 2018. Mr Jayesh Rambhia has been President of All India Plastic Manufacturers Association. He is Founder & MD of Premsons Plastics Pvt Ltd & Export Award winner.

Jigish Doshi commenting on his election as President, said, "I am grateful to the industry for the confidence reposed on me. Plastics Industry is one of the fastest growing industries in India which aims at serving the nation & its citizens by way of making their life easier & affordable as well as contributing to the national growth. Though there are various challenges before the industry, we are confident that with wider participation of all segments & stakeholders, we will be able to meet all challenges and to take plastics industry forward qualitatively and quantitatively. Our main agenda is to work for the Growth of Plastic Industries of India, also to make it more at Global Recognition and for betterment of Plastindia Foundation".

Ravish Kamath is another industry veteran and has worked on betterment of Plastic Industry on various projects, Kamath said, "Plastindia Foundation through its PLASTINDIA Exhibitions and Concurrent event PROPLAST provides an excellent opportunity to Finished Plastics Product Manufacturers to showcase their products to the world thereby increasing promotion & exports of the same".

Jayesh Rambhia has worked extensively to reduce GST from 28% to 18% on Plastic articles. He has actively worked to reduce impact of Ban on Plastic products

The Members of the Managing Committee for the term 2018-21 are – President Jigish Doshi, Vice President Ravish Kamath, Hon. Treasurer Jayesh K. Rambhia, Imm. Past President K.K. Seksaria, Raju D. Desai, V.K. Taparia, Gautam Gandhi, V. Sekar, Mihir Banerji, Alok Tibrewala, Ashok Jajodia, Mahavir Khatang, Pradip Thakkar, Prof. (DR.) S.K. Nayak, Lalit Guglani, Kamal P. Nanavaty, Mahendra N. Patel.

Cosmo Films installs a wide format lamination machine



New Delhi, 25th Sep 2018— Cosmo Films, a global leader in speciality films for flexible packaging, lamination and labeling applications as well as synthetic paper has announced installation of a new solvent less lamination machine at its Karjan plant, Vadodara. The new machine has been commissioned at company's existing facility at Karjan, near Vadodara, India which already houses BOPP lines, extrusion coating & chemical coating lines and a metalizer. The installed machine is a Nordmeccanica product which is 1.8 meter wide and can run upto 450m/min speed. The machine can produce multilayer film laminates in any thickness and go as thick as 450 microns. The laminate could be a combination of different materials such as PP, PET, PE, Nylon, Aluminium foil or Paper. A dedicated sheet cutter of the same width has also been installed next to the machine to process its output. As the machine can laminate structures as thick as 450 microns, it would help the company serve customers requiring thick film laminates. Some of the applications areas of thick laminates include graphic arts, baggage tags, retort & stand-up pouches, high-strength hanging labels, aseptic boxes & luncheon trays, composites for construction & auto-segment etc. The machine could also help company with the R&D testing during new product development process. Speaking on the development Mr. Pankaj Poddar, CEO Cosmo Films said, "Solvent less lamination machine is the latest addition to our R&D portfolio; also available for our

customers having thick lamination needs. Moreover, solvent less lamination being an eco-friendly process with no emissions and low energy demands would also help us with our sustainability goals." About Solvent less Lamination process As the name indicates the adhesives used in the lamination process do not contain solvents. Solvent less adhesive generally used is a specific type of adhesive composed by two components reacting with each other and consequently not requiring drying. The two components of the adhesives are mixed first and then applied to the film by roll coating method. Then these two components react with each other on the film web itself without any heat or radiation. The ratio of these components is important for polymerization which consequently decides rate of curing and bond strength. Low viscosity of these two components allows easy coating on the film. Initially the adhesive lends a very low green bond but within a span of 24 hours the adhesive gets cured and develops strength.

About Cosmo Films Limited

Established in 1981, Cosmo Films is a global leader in speciality films used for packaging, laminating and labeling applications. Its films offerings include bi-axially oriented polypropylene (BOPP) films, cast polypropylene (CPP) films and soon to be offered bi-axially oriented polyethylene terephthalate (BOPET) films. Today, the company is the largest exporter of BOPP films from India and also the largest producer of thermal laminating films in the world with plant cum distribution centres in the U.S, Korea & Japan. We also have global channel partners in more than 70 countries which helps us service our valued customers across the globe.

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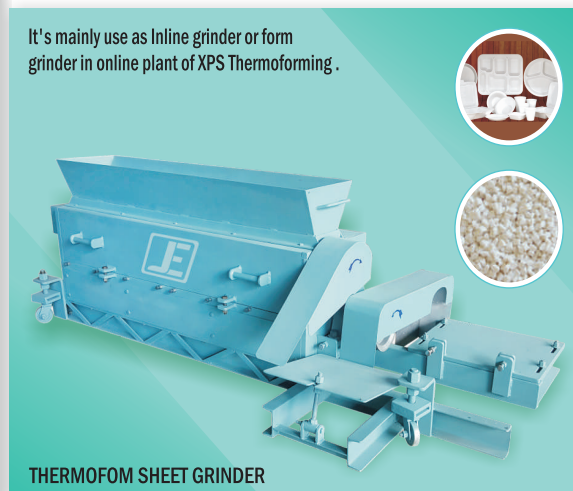
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Mr. Milanbhai : +91-9726375797
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Plastic is conquering one after another product field and its invasion is fast progressing with the passage of the time. As we stated earlier that Plastic is to almost eliminate wood usage, one more product being replaced fast is DOOR FRAME. The material which replaces wood is Wood (least possible percentage) + Plastic + CaCO₃.



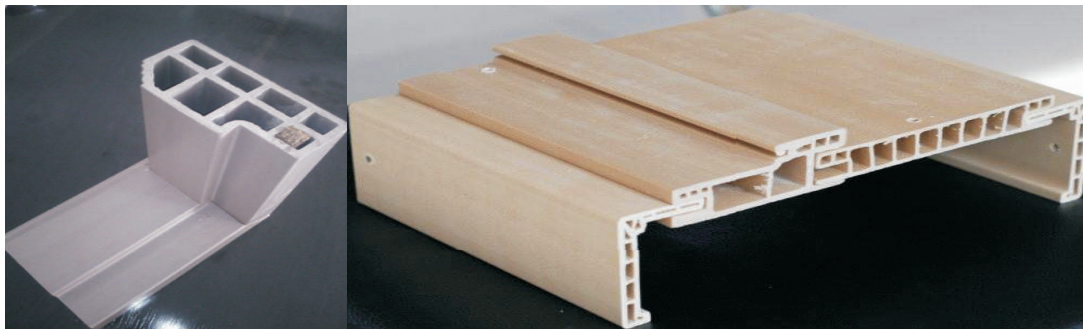
Why it is worth to replace wood for such applications?

Cost, Process, time, after effects and maintenance, color varnish & maintenance issues, strength and durability, weather's effect, to get rid of such issues, Wooden Door-frame material is being replaced mainly by Plastic for which PVC is proposed as comparatively lighter material. {PP/ HDPE are heavier}

In fact such material saves time of Carpentry and money on process, and is easier to install as well.

Technically such frames should be made at 0.9 GCC density. India ideally uses the sizes of 5" x 4", 4"x3" and so on.

BUT one most unfortunate character is, we need Solid frames, People feel and assume that solid frames can offer strength. Tis mental block still makes our frames costlier and unnecessarily heavier. Whereas CHINA and others use hollow sections as below.



Understand the figures for the project:

- The investment in the project can be:
- Machinery Rs 50 to 65 Lac Landed
- Each Die can cost Rs.5 Lac
- Building of about 5000 Sq. Feet can be sufficient. (Rs. 35 Lac)
- Land one acre at Rs 35 Lac.
- Rs 50 Lac towards other initial project cost, including EB Deposit cost.
- And Working capital cost can be near to Rs. 50 Lac.

Now also note the important Data which can tempt us towards this business initiation.

- Merely for Rs 53 to 55 per Kilograms the material can cost to make,
- Conversion cost can be Rs 13.6 to Rs 13.75 per Kilogram.
- Production can touch 900 to 950 TPA, assuming 24 hours x 312 Days' Production.

These days, this is 'THE BEST' Small project, easily to enter in to.

Can go for it very safely since now there are good number of manufacturers who make 30 to 32 mm and 3 feet/ 2.75 feet / 2.5 feet wide PVC foamed board, which is used directly as Door boards and frames are very well needed to couple with such doors.

The Author, Mr. Kamal Shah, is Ahmedabad based consultant, assisting to set up Lucrative and new projects.



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NEW PROJECT



આજકાલના સમયમાં જ્યારે અનેકાનેક ઉદ્યોગો અસ્તિત્વ ધરાવે છે. એનાથીયે ઉપર જ્યારે બજારમાં આવા ઉદ્યોગો ચલાવવા માટે અનેક લોકોની

મોટી ભીડ છે, વિચારણાનો વિષય એ છે કે કઈ જાતના અને કેવા ધંધ શરૂ કરી શકાય ?

પ્લાસ્ટિક :-



પ્લાસ્ટિક એક એવી તકો આપે છે કે જેમાં ૧૫ થી ૨૦ ટકા ઉદ્યોગ નો વાર્ષિક વિકાસ થાય છે, જ્યારે બીજા અનેકાનેક ઉદ્યોગો ને મંદી ઘેરી વળે છે.

અનેક મટીરીયલ ની જગ્યા પ્લાસ્ટિકે લઈ લીધી છે. પ્લાસ્ટિકને લોખંડની જેમ કાટ લાગતો નથી. લાકડાની જેમ કઠોવાતું નથી. વજનમાં હલકું છે અને સસ્તું પણ છે. એના ઉત્પાદન માટે ઓછી ઉર્જા લાગે છે. આસાનીથી રી-સાયકલ થાય છે. નાના માં નાના માણસો પણ પ્લાસ્ટિકના ધંધામાં પડી શકે. સબસીડી-અનેક જાતની ચાલાકીઓ વાપરીને લોકો સરકારને મુરખ બનાવીને પડાવી જાય છે. જય હિંદ.

હવે કામની વાતો કરીએ :-

પ્લાસ્ટિકમાં હવે કરવાં જેવા ધંધાની વાત :- કાગળને પ્લાસ્ટિક લેમીનેટ કરો. પ્લાસ્ટિક લેમીનેટેડ કાગળ, પેપર કપ, મિઠાઈનાં ખોખાં, અને બીજા અનેક જાતના પેકેજીંગ માટે જરૂર પડે. મશીનરી માં રોકાણ રૂપિયા ૮૦ લાખ આશરે.

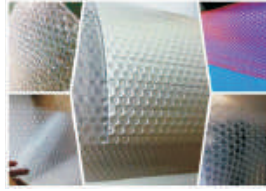


પ્લાસ્ટિકની પેન્સિલ બનાવો :- મશીનરી માં રોકાણ રૂપિયા બે કરોડ આશરે, મોટું ઉત્પાદન અને મોટો ધંધો, ખુબ મોટો નફો.



પ્લાસ્ટિકનાં રૂફીંગ શીટ બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા એક કરોડ સાઈઠ લાખ સુધી. ખુબ મોટો ધંધો અને નફો.

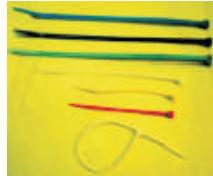
પ્લાસ્ટિક એર બબલ ફિલ્મ :- ૨/૩ ૪/૫ લેયર પેકેજીંગ ફિલ્મ. મશીનરીમાં રોકાણ આશરે રૂપિયા પચાસ લાખ.



પ્લાસ્ટિકની એક દિવાલ વાળી કોરુગેટેડ પાઈપ બનાવો :- મશીનરીમાં રોકાણ રૂપિયા બાવીસ લાખ થી



પ્લાસ્ટિકની સૂતળી-દોરી બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા એકવીસ લાખ.



પ્લાસ્ટિકની લુપ પીન બનાવો :- મશીનરીમાં

રોકાણ આશરે રૂપિયા ૩૦ લાખથી શરૂ.



પ્લાસ્ટિકની ઇન્જેક્શન સીરીંજ :- ફક્ત રૂપિયા ૦.૮૫માં તૈયાર થતાં આ સીરીંજ રૂપિયા ૧.૧૫ માં વેચાય છે. મશીનરીમાં રોકાણ આશરે રૂપિયા બે કરોડ.

NEW PROJECT



પ્લાસ્ટિકનાં ઈમીટેશન
માર્બલ પ્રોફાઈલ :-
મશીનરીમાં રોકાણ આશરે
રૂપિયા ૭૦ લાખ.



પ્લાસ્ટિકનાં ઈમીટેશન
બોર્ડ :- મશીનરીમાં
રોકાણ આશરે રૂપિયા
૧.૫૫ કરોડ.



પ્લાસ્ટિકની બી ઓ પી
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રૂપિયા ૨૦ લાખથી શરુ.

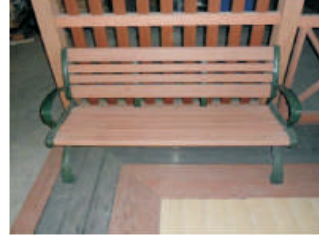


પ્લાસ્ટિકનાં પ્લાયવુડ જેવા બોર્ડ, મરીન પ્લાય જેવાં
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સાઈઠ લાખથી આગળ.



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અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

પ્લાસ્ટીક પ્રોડક્ટ્સ માટે ભારત વિશ્વમાં ઘણા ક્રમાક ધરાવે છે. સમગ્ર દેશમાં આ ક્ષેત્ર માં ઘણા એકમો આવેલા છે. તદ્ ઉપરાંત પ્લાસ્ટીકનો ઉપયોગ આજે મોટા ભાગની ઈન્ડસ્ટ્રીઝ વિવિધ ક્ષેત્રે કાર્યરત છે. ગુજરાતની વાત કરીએ તો આ ક્ષેત્રમાં ગુજરાત રાજ્યનો સિંહ ફાળો છે. જેમ કે અણદાવાદ, વડોદરા, હાલોલ, વાપી, વલસાડ, દમન, સીલ્વાસા, સારીગામ, રાજકોટ, સુરત જેવા વિસ્તારો પ્લાસ્ટીક ઉદ્યોગનાં મહત્વના કેન્દ્ર છે. એક અંદાજ મુજબ વડોદરા, અમદાવાદ, હાલોલ, વાપી, વલસાડ વગેરે માં મોટી સંખ્યામાં એકમો કાર્યરત છે. જેમ કે મશીનરીની બનાવટ, રો મટીરીયલ તેમજ મોલ્ડીંગ પ્રોડક્ટ્સ બનાવનારા ઉદ્યોગો ફેલાયેલા છે. સમગ્ર દેશમાં ફેલાયેલ પ્લાસ્ટીક ઉદ્યોગ હાલ કઠીન સંજોગોમાંથી પસાર થઈ રહ્યો છે. એકાદ બે નહીં બલ્કે અનેક સમસ્યાઓને કારણે આ ઉદ્યોગ મૂરઝાઈ રહ્યો છે. દેશમાં હાલમાં ઓદ્યોગીક ક્ષેત્રે લાબા સમયથી મંદીના કારણે મોટો માર સહન કરી રહ્યો છે. વધતા ઉત્પાદન ખર્ચ, વધતા કાચા માલનો ભાવ અને વપરાસ કરનાર ગ્રાહકો દ્વારા ભાવ વધારો નહીં આપવા વિરોધ વચ્ચે હાલમાં સમગ્ર દેશમાં કરોડોના પ્લાસ્ટીકના ઉદ્યોગની હાલત સુકા ઝાડ જેવી દુકાળગ્રસ્ત જેવી હાલતમાં પીસાઈ રહી છે.

પ્લાસ્ટીક ઉદ્યોગમાં ચાલી રહેલી મંદીના કારણે તેમજ સતત ભાવ વધારા વચ્ચે મોટા ભાગના કારખાના મરવાના વાકે જીવી રહ્યા છે. મશીનરી બનાવટના સેક્ટરની ઈન્ડસ્ટ્રીના અગ્રણીઓને ડર છે કે બજારમાં જ્યારે માંગમાં વધારો થશે ત્યારે કેટલી ઈન્ડસ્ટ્રીઓ કાર્યરત હશે. પ્લાસ્ટીક હાલમાં દરેક ક્ષેત્રોમાં જેમ કે ઓટોમોબાઈલ ક્ષેત્રે, ટેક્સ્ટાઈલ ક્ષેત્રે, ઓટો પાર્ટ્સ, મશીનરી, મત્સ્ય ઉદ્યોગ, ઇલેક્ટ્રીકલ

ઉપકરણો વગેરે જેવા ઉદ્યોગોમાં માંગ ઘટતા પ્લાસ્ટીકના માલના વેચાણને સીધો માર પડ્યો છે. આ ઓછું હોય તેમ ત્યાં ઉત્પાદન ખર્ચ વધતાં દુકાળમાં અધિક માસ જેવી પરીસ્થિતિ સર્જાઈ છે. પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓના જણાવ્યા પ્રમાણે કાચા માલના ભાવમાં સતત વધારો રહ્યો છે. છેલ્લા અમુક સમયથી કાચામાલના ભાવમાં અદાજે ૮૫ % વધારો થયો છે. આ ઉપરાંત મોટા ભાગે મશીનરી મોઢી થઈ રહી છે. કારીગરોની અછત, વીજળી ખર્ચમાં ખાસ્સો વધારો થઈ રહ્યો છે. આ બધું ઓછું, હોય એમાં કેન્દ્ર સરકાર કે રાજ્ય સરકાર ના નિયમો ની ઘણી સમસ્યાઓનો સામનો કરવો પડે છે. ભારતમાં પ્લાસ્ટીક ઉત્પાદનમાં ૩૫% મોટા એકમોનો હિસ્સો રહેલો છે. જ્યારે મધ્યમ અને નાના એકમોનો ૬૫% હિસ્સો હોય છે.

ઈન્ડસ્ટ્રીઝ માં ટકી રહેવા માટે અને મંદીના મોહોલ વચ્ચે ઉત્પાદન જારી રાખવા માટે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓને સરકારના ટેકાની જરૂર હોય છે. ઓછી માંગ વધતા બાબતને કારણે એમનીના નાણાંકીય હાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમિયાન મજૂરોના વધતા પગાર વધારાને કારણે કારીગરની અછત જોવા મળી રહી છે. આ ઉદ્યોગ માટે હાલનો સમય ખરેખર ઘણો કપરો સમયમાંથી પસાર થઈ રહ્યો છે. સરકારે ગ્લોબલી વિચારવાની જરૂર છે. તોજ આ ઈન્ડસ્ટ્રીઝ આગળ જતા બચીસકે. ૪૦ (ચાલીસ) માયક્રોન નો કાયદોશુ સમગ્ર વિશ્વના અન્ય દેશોમાં છે તેની ન્યાયીક તપાસ કરાવે તોજ સાચી હકીકત થી સરકાર માહિત ગાર થઈ શકે શે.



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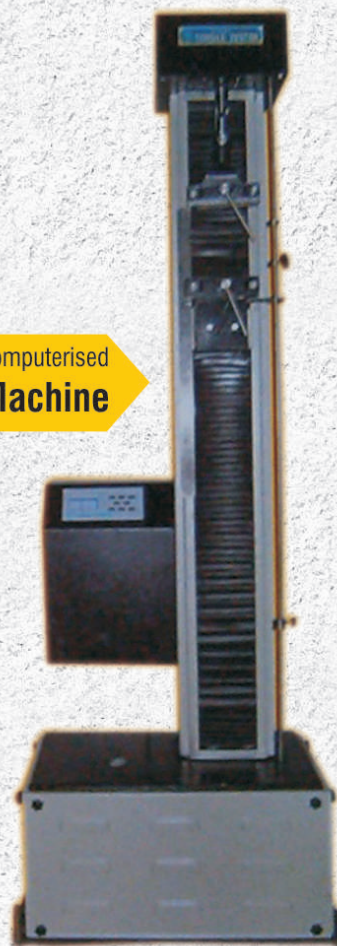
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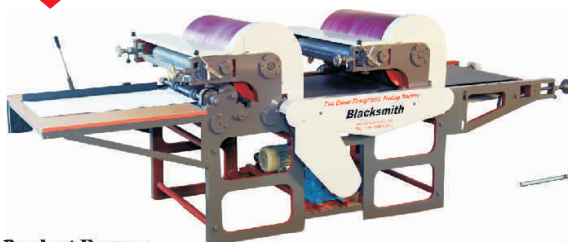
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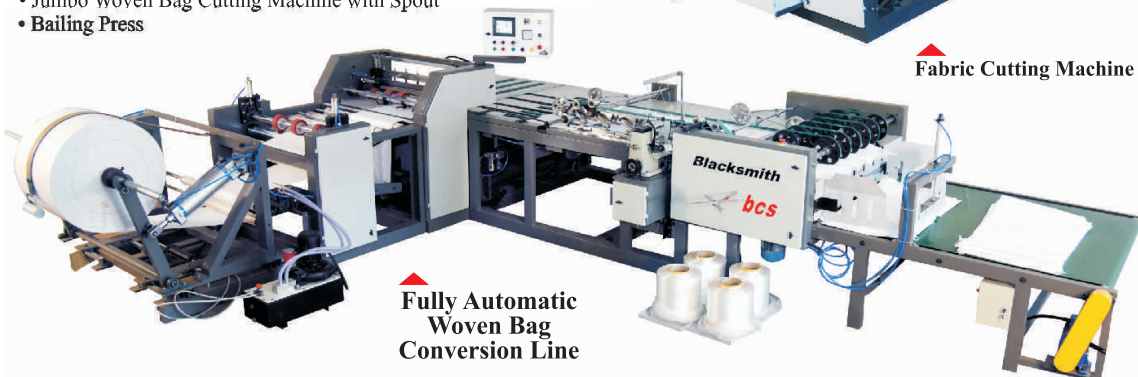
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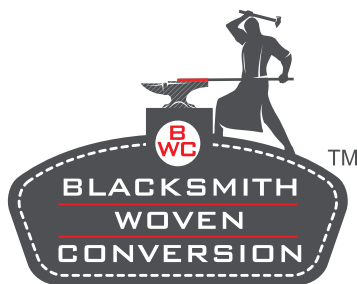
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