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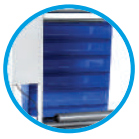

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OLP 28	250 mm	700 mm	250 mm	660 mm
OLP 32	300 mm	800 mm	250 mm	660 mm
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OLP 62	500 mm	1570 mm	500 mm	880 mm

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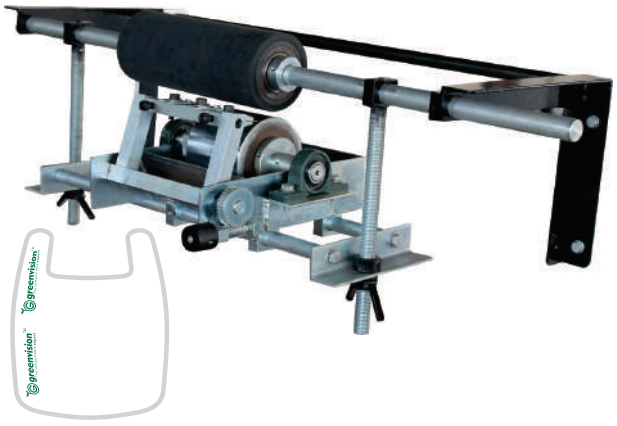

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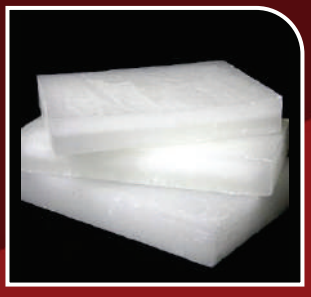

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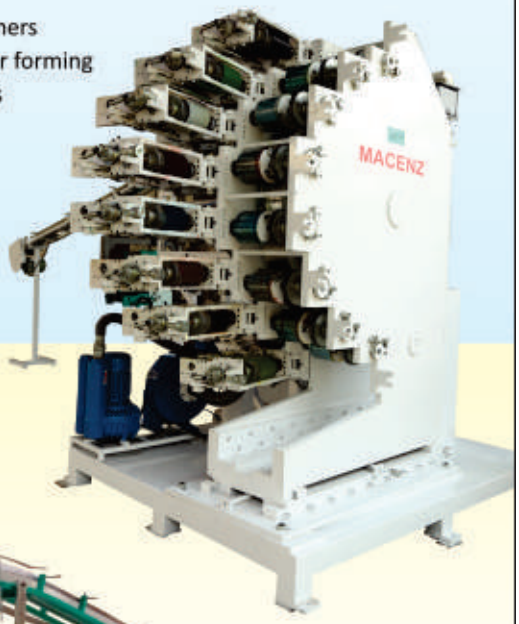

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EDITOR'S NOTE

Dear Readers:
Greetings from Plastic Tomorrow

First of all, I would like to thank our Readers, Advertisers and well wishers for the endless support and faith entrusted on us in the year gone by and look forward to your continued patronage! We wish you all a very happy,healthy, wealthy and peaceful 2020.

INDIAN PLASTIC INDUSTRY ALL SET TO GROW

India's plastics industry is evolving. It has the highest growth rate in the world and comprises more than 25,000 companies, the total plastic consumption in India is around 15 million tonnes and is expected to go up to 25 million tonnes in the next seven years.

Currently India having more than 40,000 processing units in MSME, producing vast range of products with processing capacity over 35-million tonnes. Also the processing capacity has been growing at 13% CAGR, which is unparalleled. “The processing industry is expected to invest over five to 10-billion dollars in coming next five years. This is a huge and expanding market.”

The Indian plastics industry offers excellent potential in terms of capacity, infrastructure and skilled manpower. It is supported by a large number of polymer producers, and plastic process machinery and mould manufacturers in the country.

A good growth definitely needs extra push and for that Indian Plastic Industry are taking many initiatives like Recycling, campaigning for plastics, Conferences, Exhibitions etc. The exhibition today has become the platform for companies to launch new products, grow their network within and outside the industry, learn new technologies and exchange ideas on a global level. Such is the influence of the PLASTIVISION INDIA show that today it is ranked amongst the top 10 plastic industry events globally. Organized by All India Plastic Manufacturer's Association (AIPMA) all 10 editions of the past 28 years have been a resounding success. Propelled by countless success stories. PLASTIVISION INDIA is the only trade fair exhibition from the plastic industry approved by UFI (the premier Paris-based exhibition authority).

Hoping for a very prosperous year to all the Manufacturers ,Traders, Retailers and Suppliers, Best of Luck to all the Participants of PLASTIVISION-2020.

Best Regards Dinesh Shah
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Kaneka The Dreamology Company
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Tackling plastic waste: Kaneka highlights bio-based and biodegradable polymer technology at K 2019

- Kaneka Biodegradable Polymer PHBH™ to be highlighted at K 2019
- Recent food contact material approval for PHBH in the EU, Japan and US
- Biodegradable solution helps to tackle littering and marine pollution

Amid growing calls to cut back on plastic waste and deliver circular economy solutions, Kaneka is showcasing Kaneka Biodegradable Polymer PHBH™ technology at K 2019 (Düsseldorf, October 16-23), following recent food contact material approval in the EU, Japan and the US. The leading technology-driven company has developed the bio-based and biodegradable polymer PHBH, which is not only recyclable through composting, but is also biodegradable in natural environments, including marine waters.

Articles made of PHBH have a major sustainability advantage in helping to cut back on littering and ocean pollution through its biodegradable properties. “The plastics industry is being challenged to come up with more sustainable and biodegradable solutions and help reduce littering issues. Particularly in recent years, marine pollution through microplastics has become a major global societal issue. With this new biopolymer, we are offering a plant-based alternative to compostable and biodegradable articles,” says Yukihito Ozaki, General Manager Biodegradable Polymers Division, at Kaneka.

With “OK Biodegradable MARINE” certification that guarantees biodegradability in sea water, Kaneka's new solution can help to reduce marine pollution. Other TÜV Austria Belgium certified labels for Biodegradable Polymer PHBH are “OK Biobased,” “OK biodegradable Soil,” “OK Compost Home,” and “OK Compost Industrial.”

The new biopolymer is produced through a microorganism fermentation process, in which plant oils and its fatty acids are used as a primary raw material. It shows excellent biodegradable properties under natural conditions such as in soil and in marine waters and will start to biodegrade into CO_2 and water through the digestive process of micro-organisms available in nature.

Kaneka has been piloting the production of PHBH at its Takasago headquarters in Japan since 2011. Current production is running at capacity of 1,000 MT/y. However, pilot production capacity will be upscaled to 5,000 MT/y by December 2019.

Recent food contact material approvals in the EU, Japan and the US will now allow Kaneka to accelerate their expansion of PHBH:

- In March 2018, PHBH was registered as a food contact material of the US Food and Drug Administration (FDA).
- In May 2019, PHBH was adopted to the positive list of the Japan Hygienic Olefin in May 2019, which means that the raw material can be used in food utensils, containers and packaging materials and Japan.
- In August 2019, Kaneka's solutions obtained extended food contact approval towards all food types in the EU. This means that from now on, PHBH can be used for articles such as cutlery, straws, cups, on top of dry food contact applications such as fruit and vegetable bags.

The innovative potential of the solution has already been recognized. In April 2019, Kaneka was selected as one of the six finalists in Innovation Award competition 2019 for chemistry and life sciences in Belgium. The award recognized the development of a bio-based and biodegradable foam particle based on the biopolymer PHBH.

Kaneka's ePHBH is the result of a successful merging between Kaneka's fermentation and macromolecular core technologies. It relies on the company's unique access to both the foam particle technology and the natural polymer PHBH. The newly developed bio-based and biodegradable foam particles can be molded with existing equipment into food and non-food packaging without sacrificing the key features of polyolefin foams.

The development will allow for the production of innovative packaging that is fully in-line with the circular economy. Furthermore, the added value of compostability at end of life means new perspectives in waste management systems.

At its booth at K 2019 (Hall 6, stand 6A020), Kaneka will present cutting-edge material solutions, including this major advancement in sustainability. Company experts will be available to provide more details on this revolutionary technology.

About Kaneka Corporation

Kaneka Corporation, established in 1949, is a leading technology-driven company, headquartered in Osaka and Tokyo, Japan. Aligned with the global business strategy, Kaneka focuses its activities on four strategic solutions units: materials, quality of life, health care and nutrition. The company's business activities span a broad spectrum of markets, ranging from chemicals, food products, synthetic fibers, and life science to electrical and electronic materials. Kaneka Corporation has three regional holding companies in Asia, the Americas, and Europe. Worldwide, Kaneka employs 10.000 people.

About Kaneka Belgium NV

Through world-class science and technology, Kaneka provides innovative products and solutions to diverse markets around the world, responding to the needs of people, society and the global environment, today and tomorrow.

1970 marked the foundation of Kaneka Belgium in Westerlo, Belgium – as the company's very first subsidiary outside Japan, and the first production site of a Japanese chemical company in Belgium. Since then, Kaneka Belgium has expanded its business and R&D activities to encompass diverse functional and foamed plastics solutions, developing and manufacturing specialty materials for applications in industrial, automotive, building & construction, packaging, consumer, DIY, and residential sectors.

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SINTAVIA SCALES END-TO-END APPLIED ADDITIVE TECHNOLOGY

Brian Neff wants to leave nothing to chance. To ensure the quality of the high-value additively manufactured metal parts his company provides for the demanding aerospace and defense sectors, he believes it is imperative to have end-to-end control of the production process – from design and raw materials to final part inspection.

So, in 2012 Neff founded Sintavia to do just that. This past May the company upped the ante, when it opened a purpose-built additive manufacturing facility dedicated to Tier 1 aerospace production in Hollywood, Florida.

Powder, Quality & Process

The impressive 55,000-square-foot facility is a showcase of modern manufacturing. It currently houses a variety of additive manufacturing machines, with room to accommodate up to 60. Sintavia's fleet of machines includes a pair of GE Additive Arcam EBM machines – an A2X and a Q20plus, as well as a GE Additive Concept Laser M2 DMLM machine.

"I would say the Concept Laser M2 is best in class for laser alignment - under the proper engineer. Also, the downskin surfaces are very nice – the best I have seen," according to Doug Hedges, Sintavia's president and chief technology officer.

On its eighteen high-speed machines, Sintavia is currently manufacturing with titanium, nickel, aluminum and stainless-steel alloys, as well as other proprietary powders. With three additive manufacturing printing rooms, the facility is able to separate production lines by powder type to avoid cross contamination; which is particularly important for reactive powders such as titanium and aluminum.

The facility is also equipped with laboratories, furnaces, an elaborate quality management system and, to avoid power surges or interruptions, a fully redundant power management system with a state-of-the-art flywheel UPS and 280 kW backup generator.

Sintavia continues to invest in developing surface finishing techniques for the parts it manufactures, and this summer acquired QC Laboratories Inc., a non-destructive testing services company, that already had several accreditations in place from leading aerospace OEMs. Adding QC's expertise enhances Sintavia's NDT capabilities for commercial aerospace applications, particularly with respect to surface finish conformance testing.

Sintavia's new plant is close to its first facility in Davie, Florida which houses a certified, ISO17025 accredited mechanical laboratory. Together, the facilities employ about 75 people, with the company expecting the Hollywood plant alone to scale to 130 people over the next few years.

Vertically-Integrated Additive Manufacturer

Neff suggests that Sintavia "is right at the tipping point, of making not 20 or 30 part numbers, but hundreds if not thousands of part numbers. To meet that demand, we have to have the facilities in place."

The company describes itself as a "vertically integrated additive manufacturer" and remains laser-focused on producing such components as valves, ducts, heat exchangers and chassis.

Compared with conventional manufacturing processes, additive technology enables part consolidation and the production of insanely complex geometries, while vastly reducing material waste and compressing time-to-market for components. But each technology has its place, and Sintavia sees additive as a tool that complements, rather than replaces, conventional processes.

Powder as a Differentiator

Even with its many advantages, additive also comes with its own set of challenges, such as ensuring the integrity of the raw materials — in this case, powder.

Sintavia's Davie lab plays a big role in this part of the process, with its CT scanner and two machines devoted to material development and heat treatment. The company always tests its incoming powders from every source.

"Powder is a differentiator," continues Doug Hedges. "We are the only additive manufacturer that I know of who can completely conform powder. We control our own destiny for powder, because we consider powder the building block of the whole process."

Sintavia conducts eight or nine tests on the raw materials to various standards.

"Not only do we conform powder when we buy it, we conform it when we use it. We build one build, and then pull a sample out, and conform it to those eight or nine tests again," he adds.

But with a process that has so many variables, that is still just one part of the overall process. Not only does the powder need to be certified, so do the parts, the machines, and the production facilities themselves.

It's a complicated journey, requiring knowledge, skills, expertise and discipline. The whole process is "very detail-oriented and unbelievably unforgiving," Hedges notes.

Applying Best Practice from Aerospace

Sintavia remains focused on the aerospace and defense industries. Its leaders mostly come from that background, but the sector continues to demonstrate an openness to additive technologies that have not yet been seen in many other sectors.

Hedges also believes that additive offers significant potential for the oil and gas industry. When it comes to adopting metal additive manufacturing, Hedges says the oil and gas sector is lagging a little bit behind, compared with aerospace, but he terms it "an emerging field," with many potential applications, from pipe connectors and downhole caps to parts for robotic structures used for underwater exploration. As the acceptance and use of additive technologies across Sintavia's customer base continues to grow, the company plans to open satellite facilities across the U.S.

Hedges says that Sintavia is making the necessary investments to meet its longer-term goal of making serial production parts for additive. The firm already is self-sufficient with respect to design, fabrication, quality testing, and post-processing of additively manufactured metal components, and it is excited to take vertical integration of this technology to the next level.

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Clariant Masterbatches and BMW to present automotive weight-saving success story at K 2019

- **Automaker to tell how it cut weight of dashboards by 20%**
- **Process uses chemical foaming plus core-back molding**
- **HYDROCEROL® supports improved sustainability**

Clariant will focus attention on improving automotive sustainability when it hosts a presentation by Joachim Melzig, Dipl. Ing. Kunststofftechnik, BMW Group, during K 2019, the international plastics trade fair being held October 16 – 23 at Messe Dusseldorf in Germany. Entitled "Injection molding of structural foam. A Clariant and BMW success story" the presentation takes place on the Clariant stand (Hall 8a / J11) on Friday, 18 October, at 2:30 pm.

Mr. Melzig will explain how BMW has used Clariant HYDROCEROL chemical foaming agents (CFAs) in the dashboards in almost all of their vehicles, including the 3 series and 5 series. The additive not only reduces the weight of the dashboards, but also improves mechanical properties like bending strength -- the ability to withstand shock loading during a collision for instance. The project is a key component in the automaker's effort to reduce vehicle weight, improve fuel economy and cut the amount of polymer material used.

"HYDROCEROL chemical foaming additive masterbatches play a critical role in a Clariant-wide program to support a more sustainable plastics industry," explains Laura Carrillo, Clariant's Head of Market Segment Automotive in Europe. "According to published reports, BMW was able to reduce the weight of their vehicle dashboards by 20%, with our HYDROCEROL. This weight reduction is important as part of the overall lightweighting strategy that vehicle producers need to have in place to meet the stringent emission reduction targets required by legislation. Every kg reduced has a positive contribution to lower fuel consumption and thus reduces CO2 emissions to the atmosphere"

Added to plastics during processing, HYDROCEROL is activated by heat and releases gas. This gas forms a cellular foam structure from inside while the outer skin remains solid so that the foam is not visible from outside. Because the gas displaces the polymer, less plastic is needed to produce an acceptable part. HYDROCEROL can be processed on almost any commercially available injection molding unit. In BMW's case, the density reduction was especially dramatic because CFAs were used in combination with core-back technology – a process that opens the mold slightly to further reduce pressure and allow the foam core to expand.

HYDROCEROL offers other processing advantages too. In contrast to conventional molding, it is not necessary to use holding pressure for foaming since pressure would suppress the foam formation. This results in energy savings due to lower cycle times and lower clamping forces needed.

MORE SUSTAINABILITY

Thanks to sustainability benefits like light-weighting, material savings, reduced use of fossil resources, energy savings and an overall smaller carbon footprint, besides the usage of safe and harmless raw materials, HYDROCEROL has been awarded the EcoTain® label given by Clariant for sustainability excellence.

EcoTain is a Clariant flagship la

BMW 3 Series containing HYDROCEROL in its dashboard. (Photo: BMW group)

bel awarded to products that pass a systematic, in-depth screening process using 36 criteria spanning three sustainability dimensions: social, environmental and economic. An EcoTain designation highlights solutions that offer outstanding sustainability advantages without compromising on performance, and that add value to customers and society as a whole.

Discover more on how Clariant is supporting a circular economy for plastics through sustainable innovations and collaborations. Meet Clariant leaders and partners at our "Symphony of Collaboration" themed K 2019 media event on October 17, 8:15am media breakfast followed by 9am press conference, hall 8a / J11. Register on www.clariant.com/K2019 or by emailing Stefanie Nehlsen at stefanie.nehlsen@clariant.com.

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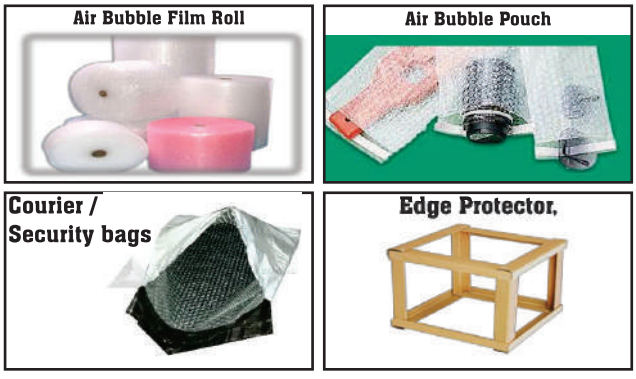

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100% Recyclable Renolit Tecnogor Composite Sheet Production Starts In India For Automotive Interior Market

RENOLIT GOR S.p.A., a leading manufacturer of thermoplastic and thermoformable materials for the global automotive market, has responded to growing global demand for RENOLIT TECNOGOR. The RENOLIT COMPOSITES business unit has added a new production line to the APPL GOR Plastics India Pvt. Ltd. plant for customers in India and the Asia Pacific region. The new extrusion line, located in Pune, near Mumbai, is the first facility outside of Europe able to produce, clean, safe RENOLIT TECNOGOR thermoformable sheets and rolls, along with other lightweight, 100% recyclable, sustainable products in the RENOLIT COMPOSITES range.

The installation of the new line in Pune was celebrated at the official inauguration event earlier in the year attended by COO Dr. Axel Bruder from the RENOLIT Group Executive Board, CEO Fabrizio Carello and CFO Mauro Piccolo from RENOLIT GOR S.p.A., and Rahul Chivate, General Manager of APPL GOR Plastics India.

A key feature of the new production line design is the inclusion of RENOLIT's patented extrusion processing technology for manufacturing the innovative, new, 100% recyclable, RENOLIT TECNOGOR glass fiber (GF) reinforced, PP based, lightweight thermoplastic composite material. High quality 3D trim parts can be consistantly thermoformed in a high productivity 'glue free' one-step-process, which reduces production costs.

Thanks to the unique production process, RENOLIT TECNOGOR has superior stiffness and impact performance. The patented fiber embedding extrusion technique also makes RENOLIT TECNOGOR a clean, very safe material to use on the shop floor and handle post moulding. This is because all the glass fibers are completely encapsulated in the PP polymer matrix during extrusion, so there are no free floating fibers in the air during lay up or exposed on the moulded part surface. This will be a major safety benefit to customers in the Indian market, which currently mainly uses glass fiber mats to produce composite moulded parts.

Technical director of RENOLIT COMPOSITES Adriano Odino, who headed up the installation project commented: “The local engineering team did a great job installing and commissioning the new line and the highly skilled blue collar workforce quickly learnt how to efficiently produce all the grades that the new line can extrude to RENOLIT's stringent specifications and quality assurance standards. The new line in Pune is now fully operational and open for business.”

The versatile new line can not only produce RENOLIT TECNOGOR, but also RENOLIT DEEP-STOCK, RENOLIT FLEXIGOR plus RENOLIT WOOD-STOCK which was the only RENOLIT product manufactured in India until now. “For many years we could only offer the classic RENOLIT WOOD-STOCK sheet range. We are very pleased to be able to now offer our clients a wider range of sustainable products which offer solutions to real problems the market is facing using traditional glass fiber mats”, said Rahul Chivate, General Manager of APPL GOR Plastics India. The RENOLIT COMPOSITES products now being produced in India are primarily aimed at Tier 1 thermoformers supplying automotive OEMs in India and Asia Pacific. They offer vehicle producers a safer and more environmentally friendly material solutions to cost effectively fabricate, automotive trim parts.

RENOLIT TECNOGOR has gained a leading position in the global automotive interiors market with leading German, Italian, French and Japanese car markers for a variety of thermoformed, custom coated, vehicle interior 3D trim parts including parcel shelves, load floors, seat back covers, dashboard inserts and trunk trims. For other interior and exterior vehicle applications, such as door inserts, map pockets, trunk side trims and wheel arch liners, RENOLIT FLEXIGOR has been supplied to the thermoformer with a customer specified aesthetic surface fabric applied to either one or both sides as required. RENOLIT FLEXIGOR is a highly thermoformable, low VOC, lightweight composite material based on polyolefin and renewable natural/ mineral raw material fillers, so is sustainable as well as being a fully recyclable product.

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About The company

The RENOLIT Group is a globally-active specialist for high-quality plastic films, sheets and other plastic products. With more than thirty locations in over twenty countries, and with annual sales of EUR 1.031 billion in fiscal year 2018, the company with headquarters in Worms – nearly fifty km northwest of Heidelberg – is one of the world's leading plastics product manufacturers. Over 4,700 employees continue to further develop the knowledge and expertise gained from over seventy years of business.

For more information about RENOLIT TECNOGOR and the full range of products available from RENOLIT COMPOSITES visit www.renolit-tecnogor.com or www.renolit.com/composites

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DSM to showcase purpose-led innovations at K2019

Geleen (NL), 17 July 2019 - Royal DSM, a global science-based company in Nutrition, Health and Sustainable Living, will showcase some of its latest purpose-led innovations at K2019, the world's premier fair for the plastics and rubber industry, in Düsseldorf, Germany, between 16 and 23 October 2019. Exhibiting under the theme of 'Bright Science. Brighter Living' – at hall 6, booth 11 – DSM will show how it is using its science-based competences to develop innovations to both address the needs of its customers and tackle the world's major challenges. Some of these innovations are detailed below.

Metal replacement for electric vehicles
With growing demand for electric mobility, electromagnetic interference (EMI) shielding and thermal management are increasingly important in delivering high-quality automotive electronic systems. In particular, metal enclosures house electronic control units, or power and battery management modules, protecting these elements from both heat and mechanical damage. Nevertheless, these conventional metal housings are heavy, driving fuel consumption and carbon emissions in case of pure combustion or hybrid cars and traction and driving experience in case of pure electric cars. DSM's portfolio of conductive plastics enables the replacement of full-metal enclosures, with shielding efficiencies of around 40-60dB of plastic thickness, which protect from EMI, and can lead to weight reductions of up to 50%.

Akulon® RePurposed: Recycled polyamide from discarded fishing nets
DSM and Starboard came together when the surfboard company selected DSM's Akulon® RePurposed, where the resin used is fully recycled from discarded nylon-based fishing nets and is known for its sustainability profile as much as its performance. The discarded fishing nets are gathered from the Indian Ocean and Arabian Sea and are given a new lease of life as fins, fin boxes, standup paddleboard pumps, and other structural parts in surfboards. The product can be applied in many other applications and is specifically targeted at the sports and leisure market.

Arnitel® E-TPEE in sustainable, high-performance athletic footwear
In recent years, the athletic sportswear industry has increasingly integrated high-performance materials to deliver higher durability, stability and functional performance without compromising on weight. DSM's expanded Arnitel® co-polyester (E-TPEE) can be used in mid-soles of athletic footwear to deliver a range of performance advantages:

- Very high rebound rate of 75-80%, compared to 65-70% other materials such as E-TPU at same densities
- Consistent performance across diverse climates; Arnitel® has a high consistency in modulus across temperatures from -25°C to +50°C
- Arnitel® enables circularity when designing an all-polyester solution for upper and sole materials, including the adhesives

Arnitel® in non-pneumatic tires
The market for non-pneumatic tires, or flat-free tires that are not supported by air pressure, is being driven by the need to integrate higher levels of sustainability, durability, efficiency and reduced costs. Arnitel®, a family of high-performance thermoplastic elastomers (TPE), offers a unique combination of flexibility, high temperature resistance, strength and processing characteristics. As such, Arnitel® is increasingly being used as a lighter, smarter, greener alternative to conventional rubbers, reducing environmental impact and, ultimately, system costs.
Reinventing the wheel with Arnitel®: Non-pneumatic tires that don't go flat youtu.be/UoHM_7f_Tv8

Additive manufacturing for automotive spare parts, low volume and customized production
Additive manufacturing (AM) is quickly evolving from prototyping into mainstream production, opening up a wide range of new horizons across many industries. The digital production technology enables new designs and applications, as well as reducing inventories, process waste, transportation cost and carbon footprint. DSM has pioneered additive manufacturing for over 25 years, and at K2019 will be outlining opportunities of AM for automotive OEMs. From creating vehicles produced in comparatively low volumes to individual requirements and tastes, to production of spare parts – an area with huge potential as it could help reduce inventory, typically 7% of an automotive OEM's liquid assets. However, AM is used though, cost-cutting and carbon footprint reduction are uppermost in the minds of the users. More information you will find in the article about the trends in automotive for additive manufacturing.

More information and registration on
www.dsm.com

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Milliken's Millad® NX™

Milliken's Millad® NX™ 8000 Clarifier for Polypropylene Receives Critical Guidance Recognition from the Association of Plastic Recyclers Milliken Chemical, a division of Milliken & Company, today announced that its Millad® NX™ 8000 clarifying agent for polypropylene (PP) has received Critical Guidance Recognition from the Association of Plastic Recyclers (APR). This prestigious recognition for innovative materials validates that the Millad NX 8000 clarifier is compatible with plastic packaging recycling. To date, the Millad NX 8000 additive is the only PP clarifying agent to receive Critical Guidance Recognition from APR, a national trade organization whose efforts are aimed at identifying and eliminating barriers to successful commercial recycling.

"Milliken's leadership and vision in developing Millad NX 8000 clarifier and other sustainable additive technologies is impressive," said Steve Alexander, president and chief executive officer, APR. "At APR, we believe Milliken is at the forefront of plastics recycling and sustainability and have no doubt the company will continue to make a significant difference across the global plastics industry."

"We consider APR's Critical Guidance Recognition to be the gold standard for recycling compatibility," said Allen Jacoby, senior vice president, Plastics Additives, Milliken & Company. "Millad NX 8000 is a state-of-the-art clarifier that supports our customers' sustainability efforts. Its environmental advantages are helping to drive strong global demand. As a result, Milliken is investing in a new, world-class manufacturing plant that will boost clarifier capacity by 50 percent."

Rigorous Compatibility Testing

Through APR's Recognition Program, the Milliken clarifier successfully underwent rigorous testing using the trade group's Critical Guidance Documents. The testing protocol, which differs by material, is designed to simulate the recycling process, including grinding, separating, cleaning and reprocessing. Test results showed that the Millad NX 8000 clarifier met or exceeded the most stringent guidance of the Critical Guidance Documents, indicating that the clarifier does not adversely affect the recyclability of PP parts. This achievement can be attributed to Milliken's extensive quality control regimen and the clarifier's high product purity.

Millad NX 8000 clarifier's advanced technology improves the aesthetics and processability of PP, encouraging broader use of this lightweight plastic with a low carbon footprint. Also, PP clarified with Millad NX 8000 additive has earned the Underwriters Laboratories (UL) eco-label for lower energy consumption. UL has confirmed that the processing of resin containing Millad NX 8000 clarifier requires lower energy consumption than other PP that uses traditional clarifiers. Lower processing temperatures can deliver energy savings that benefit both manufacturers and the environment.

Milliken was amongst a select group of recipients to receive a Critical Guidance Recognition certificate at the October 2019 APR Member Meeting in Scottsdale, Ariz.

About Milliken

Milliken has been solving everyday problems with innovative solutions for more than 150 years. Our research, design, and manufacturing expertise reaches across a breadth of disciplines including specialty chemicals, floor covering, healthcare and performance and protective textiles. An unwavering commitment to ethics guides our work to redefine how we add strength and protection to products, how we infuse vibrancy and color into our surroundings, and how we care for the environment. For us, success is when discoveries made within Milliken help us all have more meaningful connections with the world. Discover Milliken at www.milliken.com, and join us on Facebook, Instagram, LinkedIn, and Twitter.

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FOR MORE INFORMATION

www.milliken.com

COURTESY

UN Climate Conference 2019 chooses recyclable Rewind carpet from Beaulieu International Group

The United Nations (UN) Climate Conference (COP25) starts today in Madrid. Because the UN itself wants to set a good example, it is focusing on sustainable solutions for the event. That is why the organizers chose the latex-free Rewind event carpet from Beaulieu International Group (B.I.G.), which is 100% recyclable. B.I.G. launched Rewind in September 2019.

The COP25 Climate Conference takes place from December 2 to 13. For this occasion, the UN will cover the exhibition halls of IFEMA - Feria de Madrid with 100,000m² of Rewind carpet.

"Rewind distinguishes itself from other event carpets because not only is it latex-free, but it does not consume water during production, uses 83% less gas and emits 35% less CO2," says Anthony Vanden Berghe, Sales & Marketing Director Tradeshow & Event at B.I.G. Because the carpet is completely latex-free, it is also fully recyclable into a clean, high-quality mono-recyclate.

"B.I.G. is a company that takes its environmental responsibilities seriously and invests in the circular economy," adds Anthony. Rewind is already creating a good basis for a successful climate summit.

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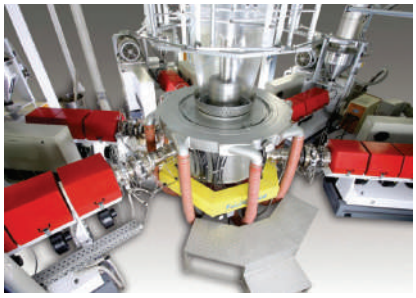

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Clariant has agreed to sell its Masterbatches business for approx. USD 1.6 billion

·Divestment of Clariant's entire Masterbatches business to PolyOne

- **Total enterprise value of approx. USD 1.6 billion**
- **Extraordinary cash distribution of CHF 3.00 per share proposed by Clariant's Board of Directors, subject to AGM approval and closing of transaction**

Clariant, a focused and innovative specialty chemical company, has agreed to sell its entire Masterbatches business to PolyOne. The transaction values the Masterbatches business at USD 1,560 million, representing c. 12.2 times the last twelve months reported EBITDA (ending September 2019) on a cash and debt free basis. This amount is payable at closing, which is expected by Q3 2020.

"This announcement is a significant milestone on our path to focussing on businesses with above-market growth, higher profitability and stronger cash generation. After the successful divestment of Healthcare Packaging in October 2019 the agreement to sell Masterbatches is an important step in delivering on our strategy defined in 2015 to concentrate on our three core Business Areas Care Chemicals, Catalysis and Natural Resources", said Hariolf Kottmann, Executive Chairman of Clariant. "As announced, we are confident that we will execute the remaining divestment of our Pigments business in 2020 in order to build the new, more focused and stronger Clariant by 2021," he added.

As previously communicated, the proceeds from the intended divestments of Clariant's non-core businesses will be used to invest in innovations and technological applications within the core Business Areas, to strengthen Clariant's balance sheet and to return capital to shareholders.

As a consequence of the divestment of the Masterbatches business, as well as the anticipated divestment of the Pigments business by the end of 2020, Clariant's Board of Directors is proposing an extraordinary cash distribution of CHF 3.00 per share to the Clariant Annual General Meeting to be held on March 30, 2020. Subject to a positive vote of Clariant's shareholders, the extraordinary distribution of approx. CHF 1 billion will be paid out post the closing of the divestment of the Masterbatches business.

The deal with PolyOne comprises two separate transactions. The global Masterbatches business is sold in a deal valued at USD 1,500 million, representing c. 12.1 times the last twelve months reported EBITDA (ending September 2019). Separately, the sale of Clariant's Masterbatches business in India has been approved by Clariant Chemicals (India) Limited's Board of Directors and is valued at INR 4,260 million or approx. USD 60 million, representing c. 17.3 times the last twelve months reported EBITDA (ending September 2019). Clariant Chemicals (India) Limited is listed on the stock exchanges in India with Clariant AG holding a 51% controlling stake. The closing of both transactions is subject to customary closing conditions and regulatory approvals.

Clariant's Masterbatches business offers color and additive concentrates and performance solutions for plastics. Clariant's Masterbatches help to enhance the market appeal or end-use performance of plastic products, packaging or fibers. In the financial year 2018, the total Masterbatches business generated sales of around CHF 1.181 billion.

For further information, www.clariant.com

COURTESY

A GLOBAL CONGREGATION OF PLASTICS AND POLYMERS INDUSTRY

INDIA PLASTICS SHOW 2020 is a global platform for an industry confluence to everyone who matters in the plastic industry joined by manufacturers, suppliers, innovators and customers from across the globe. The major focus of the exhibition will be on EXPLORATION, INNOVATION, EXPANSION AND CO OPERATION. The exhibition will showcase the latest technological developments in the field of plastics and polymers, offering a world of global technological know-how, consulting and joint venture opportunities. The event – INDIA PLASTICS SHOW 2020 is being held from 20th to 22nd September, 2020 at the prestigious Helipad Exhibition Centre, Gandhinagar, Gujarat. The exhibition is conceived and promoted by K AND D Communication Ltd. The major exhibitor groups for the plastic industry in the exhibition will include exhibitors from the fields of Machinery: plastic processing machine, preprocessing and recycling, blow molding, packaging machines, plastic welding, quality control and testing machinery, Ancillary equipment, hot runner system, extrusion tools, offset printing and reinforced resins machines. Materials: Additives & Fillers, Master batches, Coating Compounds, Bio plastics, organic and inorganic Pigments, Synthetic fibers, foams and intermediates, fillers and adhesives, antifogging agents, polymer distributors and suppliers of CPE and PVC compounds bio plastics. Products and Packaging: Molds and dies, automotive parts, housewares/ kitchen wares, packaging products, electrical components and appliances, plastic pipes and pipe fittings, mold bases and parts. Recycling: Preprocessing and recycling machines, recycling technologies, resins, waste consultants, shredders, washing and regranulation, densifiers, agricultural plastic bag manufacturers. The exhibition is organized by K AND D COMMUNICATION LIMITED, India's leading exhibition organizing company. With the grand venue of Helipad Exhibition Centre spread over 45 acres with 15 exhibition halls and the extensive global reach of the global participants of the plastic industry, this exhibition will bring in tons of opportunities for all those in the plastic industry.

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SONGWON expands functional monomer range

Three new products now manufactured on an industrial scale:

- BP-Z high-purity crystalline bisphenol
- TMBP high-purity modified bisphenol
- ERM-6100 dicyclopentadiene resin range

As announced at the European Coatings Show (ECS) this year, SONGWON is further developing and expanding its range of bisphenol (BP) monomers and dicyclopentadiene (DCPD) phenol resins. High-purity BP-Z crystalline bisphenol and tetramethyl (modified) bisphenol (TMBP) are now being produced on an industrial scale, while the dicyclopentadiene epoxy resin modifier range ERM-6100, introduced at the ECS, is already well established in the market and being used, for example, in specialty resins in Asia.

“Resin manufacturers can benefit still more from the high performance, cost efficiency and competitive prices of our functional monomers since we are now producing them in bulk,” said Heinrich Schulte, Leader of the Market Center Functional Monomers.

Functional monomers are specialty molecules that can provide a standard polymer with additional, enhanced performance effects and/or significantly increase processing performance. “Our products improve temperature resistance, electrical insulation properties, and resistance to water and moisture, for example,” explained Schulte.

The bisphenol monomer BP-Z improves the mechanical properties and heat resistance of specialty polycarbonate and polyester resins. Composed mainly of epoxy, phenolic and novolac resins, it is suitable for high-frequency, copper-clad laminates and electronic packaging and currently being assessed in 5G-compatible packaging resins in Asia.

TMBP, which has been developed to ensure the highest purity and excellent color, can be used for both epoxy and phenolic resins and is noted for increasing their glass transition temperature. SONGWON is working with customers to define new color and purity standards that will allow them to expand applications, for example in the innovative electronic sector.

ERM-6100 DCPD phenol has now qualified as a hardener for specialty resins such as benzoxazine, which is increasingly finding applications in high-performance electronic packaging. With their minimal free phenol content, the five dicyclopentadiene (DCPD) phenol resins each have a different softening point, functionality and viscosity, and they can therefore cover a wide variety of requirements.

SONGWON started selling its functional monomers in Europe this year and will launch them in USA in 2020.

About Songwon Industrial Co., Ltd.

SONGWON, which was founded in 1965 and is headquartered in Ulsan, South Korea, is a leader in the development, production and supply of specialty chemicals. The second largest manufacturer of polymer stabilizers worldwide, SONGWON Industrial Group operates companies all over the world, offering the combined benefits of a global framework and readily accessible local organizations. Dedicated experts work closely together with customers to develop tailor-made solutions that meet individual requirements.

For further information, please go to: www.songwon.com.

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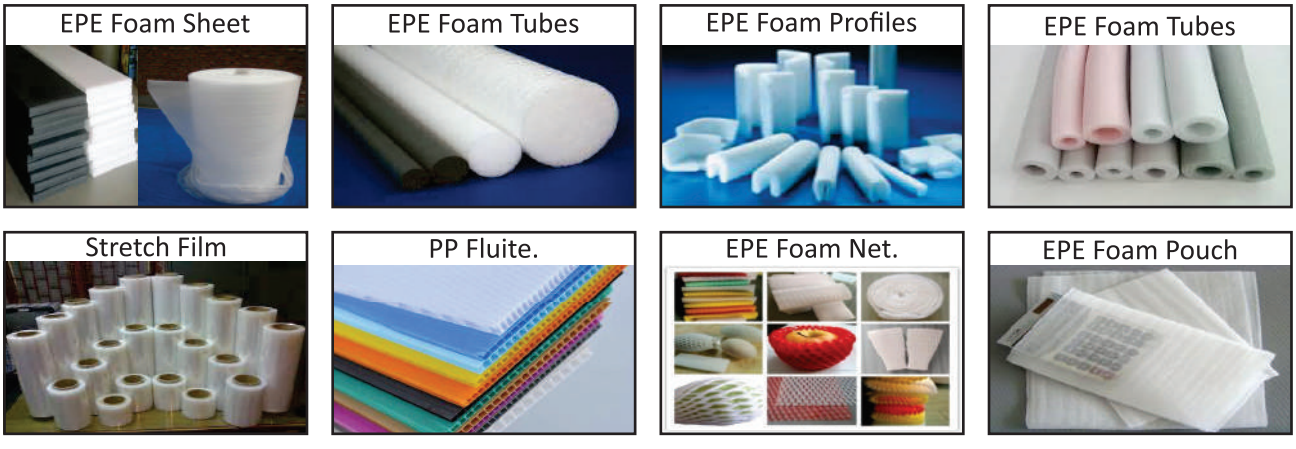

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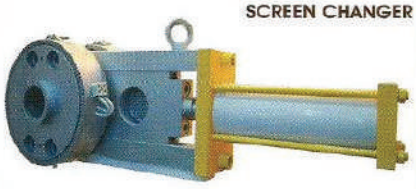
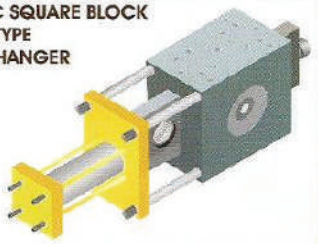


HYDRAULIC POWER PACK SYSTEM

HYDRAULIC SQUARE BLOCK CASSETTE TYPE SCREEN CHANGER



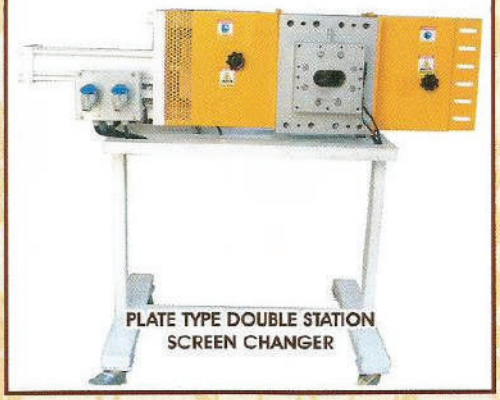
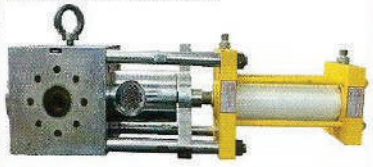


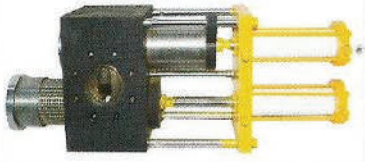
PLATE TYPE DOUBLE STATION SCREEN CHANGER

POWER PACK WITH SOLENOID VALVE

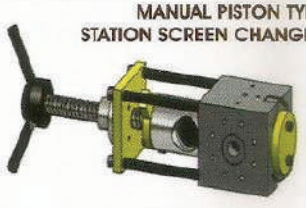
HYDRAULIC PISTON TYPE SCREEN CHANGER



TWIN PISTON TYPE CONTINUOUS SCREEN CHANGER



MANUAL PISTON TYPE STATION SCREEN CHANGER



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INEOS STYROLUTION

INEOS Styrolution and Agilyx advance polystyrene chemical recycling plant in Channahon, Illinois

- Partnership paves the way for closed loop recycling to keep polystyrene out of landfills

INEOS Styrolution, the global leader in styrenics, and Agilyx, the leader in converting post-consumer plastics to low-carbon fuels, chemicals, and plastics, announced today they are advancing the development of a polystyrene (PS) chemical recycling facility in Channahon, Illinois.

The facility will be capable of processing up to 100 tons per day of post-consumer polystyrene and converting it into a styrene product that will go into the manufacturing of new polystyrene products. The facility will leverage Agilyx's proprietary chemical recycling technology, which breaks polystyrene down to its molecular base monomers that will be used for the creation of new styrenic polymers. This is a true circular recycling approach that enables everyday products, like a cup, to be recycled back into a cup.

Agilyx recently completed a successful development program for INEOS Styrolution that qualified the styrene product to INEOS' specifications and the identified post-consumer polystyrene feedstock for the process. The next phase of the project advances the engineering and design of the facility.

“This is an incredibly exciting time to be in this industry,” said Ricardo Cuetos, VP INEOS Styrolution Americas, Standard Products. “Agilyx's chemical recycling technology is a game changer to advance the circular recycling pathway of plastics. A benefit of chemical recycling is there is no degradation over multiple cycles; the polymers can continue to create new products over and over again of the same purity and performance of virgin polystyrene. This plant will dramatically increase recycling rates in the greater Chicago area, dispelling the myth that polystyrene can't be recycled. We are thrilled to partner with Agilyx on this project.”

The Agilyx proprietary chemical recycling process can recycle polystyrene contaminated with food and other organics and convert it back into new, food-grade plastic products or packaging. The process demonstrates that so much more post-consumer plastics in the world today can be chemically recycled to new plastic products again and become a renewable resource.

“Polystyrene is the best option for prepared food and beverage containers. It provides cost-effective, high-quality packaging for food service applications,” said Joe Vaillancourt, Agilyx's chief executive officer. “Alternative polymers chosen over polystyrene experience low recycling rates, are less amenable to chemical recycling, with most of those plastics ending up in landfills. We are excited to be working with INEOS Styrolution to advance this chemical recycling pathway that has the ability to significantly increase recycling rates all over the world.”

About Agilyx

Agilyx, based in Tigard, Oregon, is the leader and pioneer in chemically recycling difficult-to-recycle mixed waste plastic streams into high value low carbon circular feedstocks and fuels. The Company has developed the first system capable of recycling polystyrene waste into styrene monomer, which is then used to make new polystyrene ("PS") products. The company also has commercialized a technology that converts mixed plastics to high quality crude oil. From these first to market products, the company has since expanded its product platform into a broad range of customized low carbon chemicals, polymers and fuels. Agilyx is working with waste service providers, municipalities, refiners, and both private and public enterprises to develop closed-loop industrial solutions for mixed waste plastics. Contact us to have your post-consumer plastics recycled at info@agilyx.com.

For more information,

www.agilyx.com.

COURTESY

ARCHROMA
LIFE ENHANCED

Archroma completes the acquisition of BASF's stilbene-based OBA business for paper and powder detergent applications

Reinach, Switzerland, 6 December 2019 - Archroma, a global leader in color and specialty chemicals towards sustainable solutions, today announced that Archroma India Private Limited has completed the acquisition from BASF India Limited (BIL) of its stilbene-based OBA (optical brightening agents) business for paper and powder detergent applications.

The transaction includes BASF's stilbene-based OBA technology, portfolio and manufacturing unit at Ankleshwar, India, where approximately 100 people are employed.

Archroma is a member of the SK Capital Partners group. In July 2015 the company acquired the global textile chemicals business of BASF, and, between 2014 and 2018, M. Dohmen, an international group specializing in the production of textile dyes and chemicals for the automotive, carpet and apparel sectors.

With this new acquisition, Archroma is further consolidating its position as a global chemical leader by expanding both its supply capacity and application markets, in particular in India and Asia.

The company also plans to develop its support to the global detergents market, thanks to its experience with manufacturers and brands in the textile industry. With this, detergent manufacturers will be able to build on Archroma's unique textile expertise to innovate with creative solutions and offerings.

for more detail:- www.archroma.com

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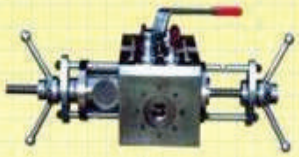
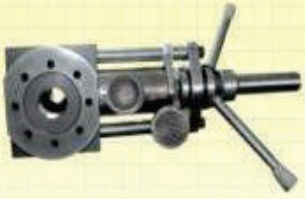


Continous Screen Changer

Melt Pump System

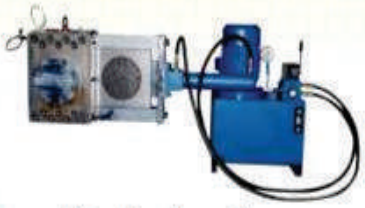
Lever Type Screen Changer



Manual Plunger Type Screen Changer

Double Plunger OnLine Screen Changer
Double Plunger Back Flush 4 Cavity
Online Screen Changer

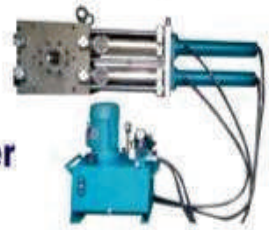
Self Cleaning On-line Screen Changer



Platen Type Screen Changer

Cassette Type Continuous Screen Changer

Accumulator Power Pack



Double Plunger 4 Cavity
Back Flush Online
Screen Changer

Mfg. All Type of Screen Changer for Plastic Processing Plants

Plunger Type
Hydraulic Screen Changer

Application :
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- Re-Process Plant
- Lamination Plant
- Compounding & Master Batch Plant
- Sheet Plant
- Mono Filament Plant
- Multifilament Plant
- Pet Process Plant
- Pipe Plant
- Box Strapping Plant

Advantages :
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   Application: Packaging **Tobacco paper, hologram,hotstamping and food grade packaging and Textile Yarn.**

2. **Capacitor Film- Rolling Vacuum Metallizer** Material can be Metalize : BOPP/CPP/PET Films
   Application: Electrical Capacitor

3. **Induction Heating- RollingVacuumMetallizer (Crucible Type)** Material can be Metalize :**PET**
   Application: **For Textile Yarn (less pinholes and higher OD)**

4. **Magnetron Sputtering Rolling and Box Type Vacuum Metallizer:** Material can be Metalize **: BOPP/CPP/PET Films**
   Application: **Solar control film,ITO Transparent Conductive Film, reflective film, solar green house film, electric heater film, Anti Frost and anti fog Transparent Film,LCD Display and electroluminescent display with transparent electrode film. Automobile Light Coating Machine:** Material can be Metalize:**PBT/PC**
   Application:**automobile headlight, rear lamp, reflector lamp, lampshade, turn light, car license plate lamp, xenon vapor lamp, etc.**

5. **Optical Lens Coating Machine:**
   Material can be coating :**Acrylics,Fiber glass ,PC**
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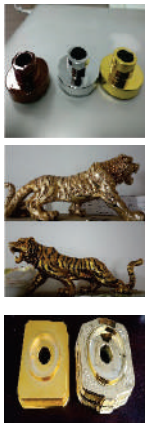

This machine is suitable for cosmetics plastics articles Aluminum coating for gloss and post colour requirements. X ==PP/ABS/PC can be used for aluminum coating. Uses :- decorative field, cosmetics caps and bottles, automobile logo, reflectors, toys and mobile cases.

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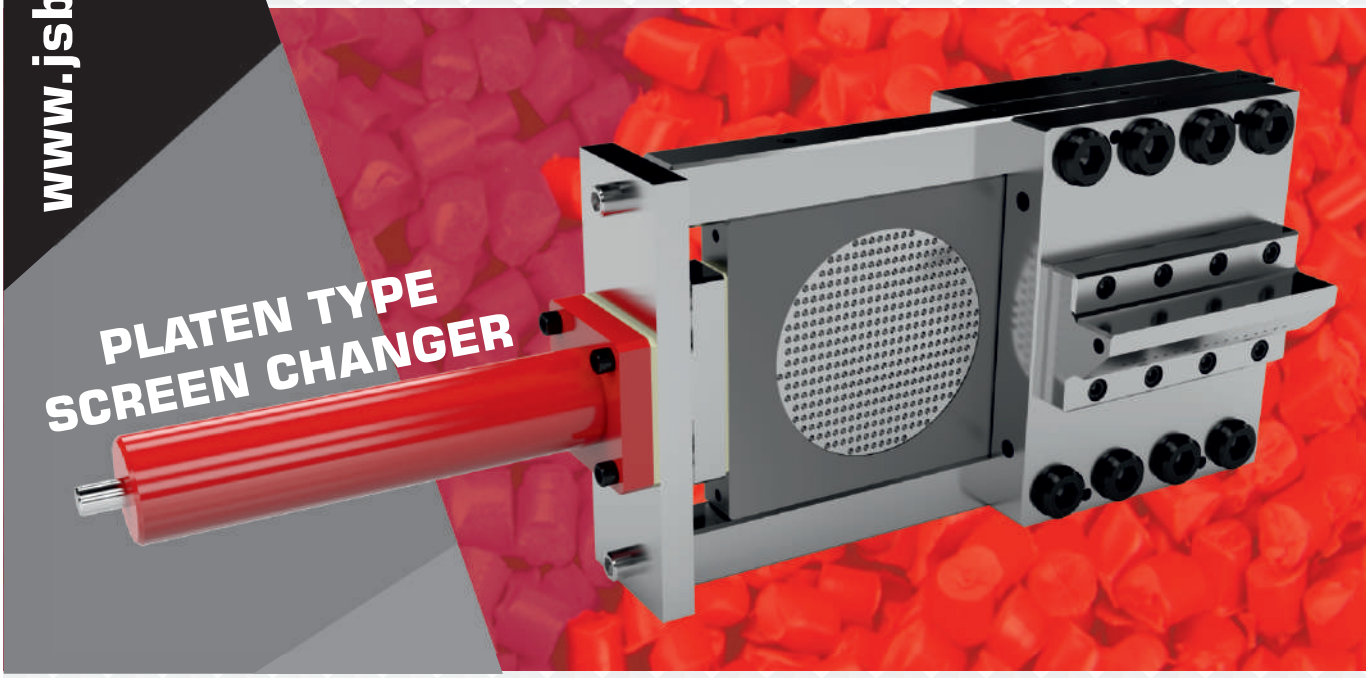
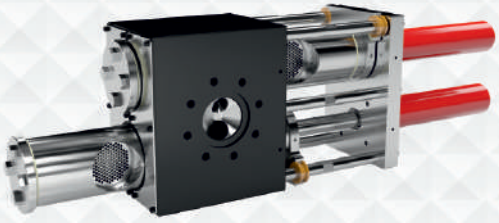
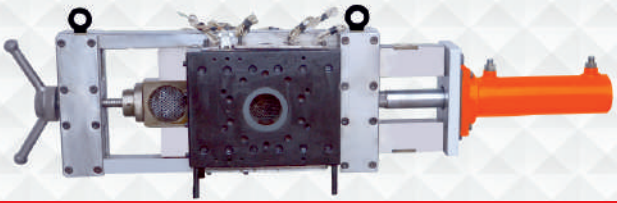


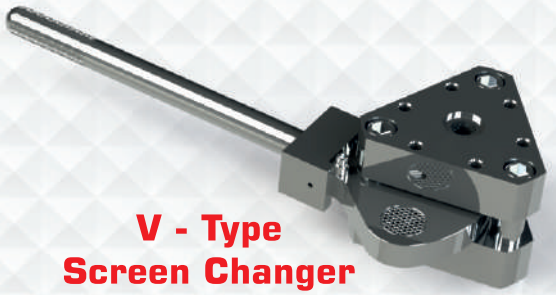
MELT PRESSURE TRANSDUCER SYSTEM

DOUBLE PLUNGER CONTINUOUS SCREEN CHANGER



CASSETTE TYPE SCREEN CHANGER





V - Type Screen Changer

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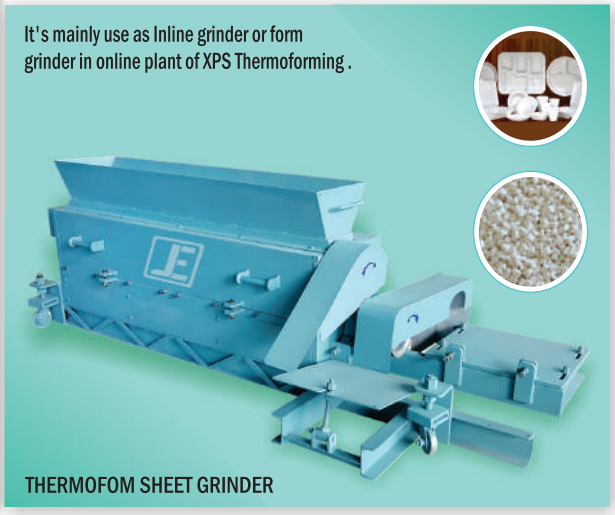
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Plastic Waste Control Project

Purpose :-Permanently solve plastic pollution problem of India/World.

Inventions :-

1) Plastic Dam Technique

2) Waste Plastic Product Machine (WPPM Technology) Both inventions are Patent Registered

Inventor Soldier Sachin Deshmukh & Mrs. Riya Deshmukh

Contact :-dribharat@yahoo.com

First Plastic Dam in the World. Waste Plastic Product Machine

I) Plastic Dam Technique:- Plastic Dam is a unique technique in which without any pollution (Air, Water & Land) , given solution on Plastic Pollution problem. Also Water conservation possible Problem of plastic & Water at a time solve with Plastic Dam Technique.One Plastic Dam through 500 villages or 02 Municipal councils or 20% Municipal Corporation Possible to become plasticfree.Details about plastic Dam technique – Appx "A"

II) Waste Plastic Product Machine :- Islampur municipal council, we are become role model of Waste Plastic Product Machine plant. Bellow 100 micron any types of waste plastic can be processed to become plasticbricks,milestone, paver block etc. This plastic bricks to constructed first plastic wall in Indian Army at Jammu & Kashmir .Bricks can be used as a insulation wall for social purpose.Details about WPPM Technology – Appx "B"

III) VIP Demonstrations and attended Exhibition's

The first plastic dam of the world is Constructed in Sangli (Maharashtra). Research by Soldier Sachin Deshmukh

Plastic has become a major problem in front of India and the whole world. Plastic It causes Water, Land and Air pollution. Researcher Sachin Deshmukh on such plastic pollution has found a solution in the form of plastic dams. He is serving in the Indian Army in Jammu and Kashmir. His wife Riya Deshmukh is supporting him. Riya Deshmukh is the CEO of "Deshmukh Research Industry", and is working to bring the research carried forward by researcher Sachin Deshmukh to the people. This research of Sachin Deshmukh has been going on since July 2014 and registered a patent in 2015. And it is the world's first plasticdam being built in Sangli (Maharashtra).Plastic Dam This research is significant in that we are eliminating about ten to fifteen tons of plastic in plastic dams indefinitely without polluting any kind of water, plastic, air and land. In addition, this research also promotes water conservation with plastic pollution.

Less than 5 lakh rupees have been spent in making plastic dams. And it has taken less than a month to make this dam. Plastic dams are a common solution to the problem of plastic in cities and water problem in villages. Most important of all, any type of plastic is used in this dam. There is no need for waste plastic segregation. Sachin Deshmukh is a resident of Khujgaon village in Tasgaon taluka. He has discovered solutions to problems of plastic pollution in the form of "waste plastic product machines" and "plastic dam techniques". Both inventions are patent registered According to Sachin Deshmukh, plastic pollution is a major problem, and the measures taken to eliminate it today are not enough. Also, the important thing is that today, employment opportunities are not created to eliminate plastic. These have been brought to light by researcher Sachin Deshmukh. Sachin Deshmukh chose Arvade village to make Plastic Dams.The village Sarpanch Yuvraj Patil, eminent citizens Ramchandra Chavan and Sadashiv Chavan sir welcomed the research by researcher Sachin Deshmukh and the construction of the dam began from October 25, 2019 and will be completed by November 30, 2019. It costs 5 lakh rupees. He started construction of the dam with Rs 1 lakh from Plast India Foundation, and Rs 50,000 from Khujgaon village. Chief Executive Officer Zilla Parishad Sangli, Chief Officer Islampur & Karad municipal council given help regarding waste plastic arrangement. And finally World's first plastic dam make in India.

The capacity of DAM can be more than 1.5 million liters. The dam is being constructed at Arvade-Manjarde Road, Sangli (Maharashtra). In this plastic dam, 5 tons of plastic from the waste depot of Islampur Municipal Council, 8 tons of plastic from the waste depot of Karad Municipal Council, 4.5 tons of waste plastic from about 148 villages in Walwa and Kadegaon tehsils, totaling 17.5 tons of plastic. With the help of plastic dams are solved forever. The world's first plastic dam has been built in Arawade village, which has created a satisfying atmosphere in the village.

According to the reviser Sachin Deshmukh, if the price of waste plastic is raised to Rs 10 per kg, then more than Rs 5,000 Cr. employment opportunities can be created for poor people. Collected plastic utilized in the plastic dam without pollution, water conservation and plastic will get 100% solution. Today, water, land and air are prone to plastic pollution everywhere. Today India does not need to clean the entire India, to clean plastic pollution. If you select a district, make that district plastic-pollution-free, and when a formula is created, by copy-pasting it across the country, India will become plastic pollution-free. According to the idea of Deshmukh Reduce, Reuse and Recycle these ideas which are trying to control plastic pollution, are not enough. Accordingly, plastic pollution control is not possible. Therefore, he has done research on "waste plastic product machine (WPPM Technology)" and "Plastic Dam

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PU Roller for Plastic Industries are as under :

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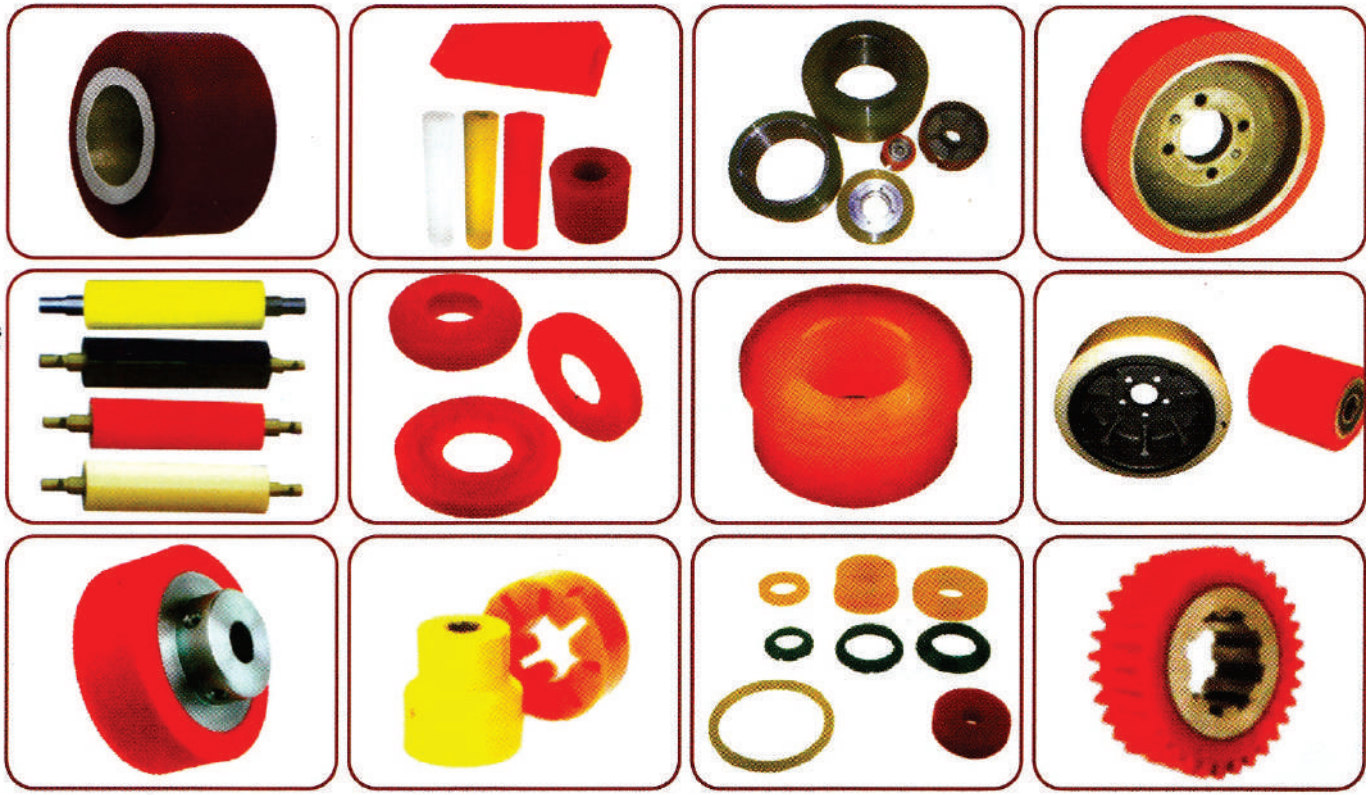
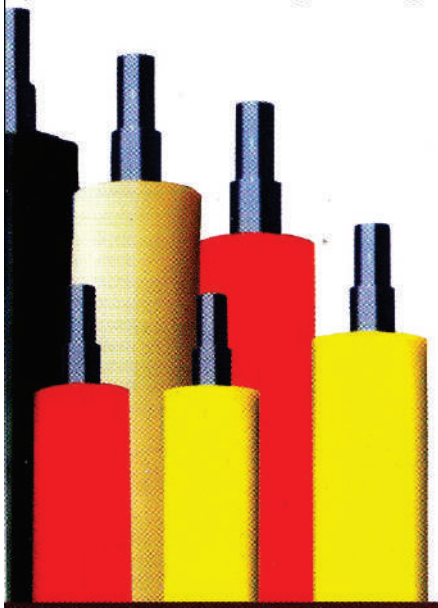
2). PU Squeezing Roller for Sutli Plant
3). PU Squeezing Roller for Box Strap Plant
4). PU Squeezing Roller for Food Net Plant
5). PU Pinch Roller for Extrusion Plant
6). PU Nip Roller for Plastic Machinery
7). PU Roller for Plastic palletizing Plant





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Email : westernpattern@yahoo.com
Web. : www.westernpu.com

Plastic Waste Control Project

Technique" to bring research to the people. The reason behind this background is to provide employment opportunities to eliminate plastic, "Permanent Recycle" the Plastic is an alternative to plastic discharge. In particular, through their technology it is possible to free plastic from pollution without harming the environment.
Important effects generating with Plastic Dam Invention:-

1. The plastic dam is going to be a big solution for the problem of plastic in urban areas and agriculture and drinking water in rural areas.
2. This invention solved many questions of Swachh Bharat Abhiyan. Also gives big role in Plastic waste free world movement.
3. The cost of this dam is less than Rs 5 lakh and takes less than a month to make.
4. If the price of zero value plastic is to be at least Rs 10 per kg, then the employment above Rs 5000 Cr. is going to be ready for the poor people. This dam will generate employment of about 1.5 lakh rupees from waste plastic for poor peoples.
5. There is no pollution in the plastic dam when using plastic. This means it is pollution free technique
6. Plastic dams will start conserving water in future.
7. Due to the general cost of plastic dams, construction of such dams is possible from the public.
8. Small Rivers - Drains that are up to 50 feet in width, have made this dam a place which is environmentally important.
9. This dam can give an average of 500 villages relief from plastic pollution at a time.
10. It is the world's first plastic dam and has a patent register.

WASTE PLASTIC PRODUCT MACHINE (WPPM) TECHNOLOGY

INTRODUCTION

1. Disposal of waste plastic is a major problem faced globally. India alone generates 26000 tons of waste plastic every day. According to the National Pollution Control Board 40% Waste Plastic is unmanageable, resulting in Pollution of Air, Water, and soil. This facilitates a requirement to recycle the plastic and put it to a reusable form.

2. As a recyclable solution and utilization of an end product for a civil and defense requirement Inventor Sachin Deshmukh has developed a " Waste Plastic Product Machine" technology, wherein the plastic waste is recycled to form products like bricks which are utilized in making footpath , bunkers and security walls etc.

3. The salient features of this machines are as below:

a. Easy availability of waste plastic as raw material.

b. Life of plastic blocks is more compared to normal bricks.

c. Plastic Wall made of plastic bricks works as an insulation partition with temp on the inner and outer side. That can be use in cold and warm areas like J & K and Rajstan areas .

d. Strength of plastic brick (24 N/mm2) is more than normal bricks (3 N/mm2) , Softening point is 1500 Celsius of products.

e. Waste plastic is block permanent in any particular product shape for permanently, here not issue of recycle, reduce and reuse.

Details about Islampur plastic waste control project (PWCP) plant and First plastic wall created from Municipal waste plastic in J & k.

ISLAMPUR MUNICIPAL CORPORATION PWCP ON GARBAGE DEPOT

Plastics have become a big problem today. In India alone, 25,490 tons of plastic is prepared every day. Significantly, according to the report of the Central Pollution Control Board, 40% of plastic waste in the country of 25,490 tons, i.e. 10,340 tons of garbage was not raised. Plastics of 15,342 tons of large 60 cities are prepared every day, out of which 9,205 tons of plastic is reused, the remaining 6,137 tons of plastic as it form i.e. un-allotted . There is a serious plastic problem. On that problem, . Inventor Sachin Deshmukh (Sangli) has revised the invention as a Waste Plastic Product Machine. This efficient measure is for this reason any kind of plastic assembled at the garbage depot can be processed directly into the machine such as plastic bricks, paver block, tree guards, mile stones etc.

If the plastic waste control project of InventorSachin Deshmukh becomes a part of the campaign like Swachh Bharat Abhiyan, Rural Development campaign etc, and the plastic which gets Garbage gets ten rupees per Kg rate , then above 5,000 Cr. rupees jobs can be prepared for poor people. To prove all this, InventorSachin Deshmukh created the roll model of his modification Islampur Municipality. "Plastic Waste Control Project (PWCP) " using "Waste Plastic Product Machine" Technology and the Concept to "Control Plastic pollution Problem of India" is InventorSachin Deshmukh's dream. . He have patented this technology.

Further more details next Edition

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MESSAGE FROM PLASTIC PROCESSORS (GUJ) ASSOCIATION, VADODARA.

JAYAKANT NANAVATI
President (Vadodara)

Plastic are widely used for packing in various fields like Railway, Space, Medical Equipment, Farming Products, Fertilizer, Cement manufacturing unit and many other sectors. Plastic packing is a maximum source to save environment.

We are facing serious problem of waste plastic collection, actually plastic is not a problem but collecting and segregating it is a problem. If we collect and segregate it and send it to the Recycling unit. no problem will arise globally. All developed countries are using plastic to save human health, save water and save environment, unfortunately we are focusing only environment. Waste collection and recycling of plastics are healthy for industry.

Now government is focusing on "EPR SYSTEM" which is good for collection of wastage and it will also help saving environment, industry and employment.

There is no alternate of plastic in the world, material is light weight, Durable, Non Corrosive, water proof, easy for transportation. Plastic material is used widely in packaging of food grains, Vegetables, and Fruits which is 100 % safe.

Globally the consumption of plastics are more than India, but they are not throwing the waste they create awareness among the people for not throwing waste on road, They also request not to ban use of plastic.

Thanks to Plastic Tomorrow (D.J.PUBLICATION) for their kind support and all the best for participation in 11th edition of largest exhibition of plastic industry held in Mumbai(M.S.) From 16th to 20 January2020.

PRESIDENT

PLASTIC PROCESSORS(GUJ.) ASSOCIATION,VADODARA
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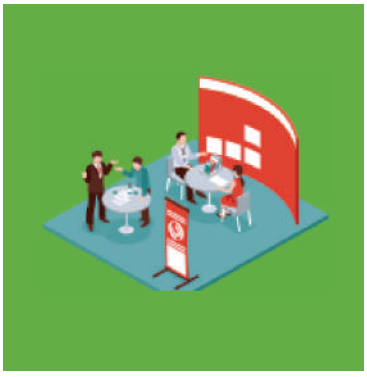

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COMPLAST	JOHANNESBURG (S.AFRICA)	3-5 MARCH 2020
PLASTIVISION ARABIA-2020	EXPO CENTRE-SHARAJ-UAE.	16-19 MARCH
PLAST ASIA-2020	BIEC, BANGALORE	19-22 JUNE-2020
INDIA PLASTICS SHOW-2020	GANDHI NAGAR	20 TO 22 SEPT.,2020
PLAST SHOW	AHMEDABAD	17 TO 20 DEC., 2020
PLAST INDIA-2021	PRAGATI MAIDAN NEW DELHI	4-9 FEB 2021
PLAST FOCUS	GREATER NOIDA.	5TH TO 9TH MARCH2022

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

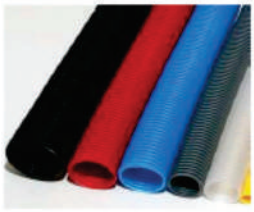
હવે કામની વાતો કરીએ :-

પ્લાસ્ટિકમાં હવે કરવાં જેવા ધંધાની વાત :- કાગળને પ્લાસ્ટિક લેમીનેટ કરો. પ્લાસ્ટિક લેમીનેટેડ કાગળ, પેપર કપ, મિઠાઈનાં ખોખાં, અને બીજા અનેક જાતના પેકેજીગ માટે જરૂર પડે. મશીનરી માં રોકણ રુપિયા ૯૦ 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.



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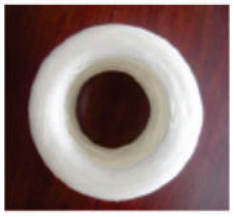
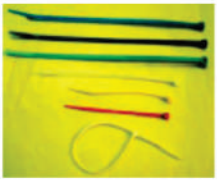


પ્લાસ્ટિકની સૂતળી-દોરી બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા એકવીસ લાખ.



પ્લાસ્ટિકની લુપ પીન બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા ૩૦ લાખથી શરૂ.

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

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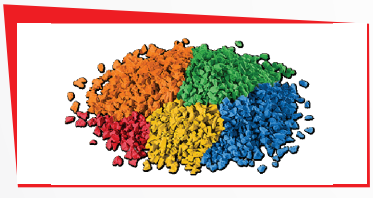

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Halol :- Plot No. C-1/1935, G.I.D.C., Halol - 389350 Dist. Panchmahal (Guj.)

Ahmedabad :- Block No. 1820/2/1, Nr. K.P.T. Metal Co., Opp. GEB Substation,
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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 પી ટેપ બનાવો :- મશીનરી માં રોકાણ રૂપિયા ૨૦ લાખથા શરુ.

પ્લાસ્ટિકનાં પ્લાયવુડ જેવા બોર્ડ, મરીન પ્લાય જેવાં બોર્ડ મશીનરીમાં રોકાણ આશરે રૂપિયા એક કરોટ સાઈઠ લાખથી આગળ.

પ્લાસ્ટિકનાં - (વુડ+પ્લાસ્ટિક) દરવાજાં અને બોર્ડ (ઉપર પ્રમાણેનાં) અને ફ્રેમ મશીનરીમાં રોકાણ આશરે રૂપિયા સવા ચાર કરોડ.

વુડ + પ્લાસ્ટિક નાં પ્રોફાઈલ્સ જેમાંથી અનેકાનેક વસ્તુઓ બની શકે.

મશીનરીના એકજ સેટ અપ અને થોડાઘણાં મોલ્ડ વસાવીને રૂપિયા આશરે પોણા બે કરોડ સુધીમાં આ ધંધો ચાલુ થઈ શકે હજુ અંત નથી. બીજી ઘણી તકો પ્લાસ્ટિક આપે છે.

કમલ શાહ, અમદાવાદ
9624112091 / 9879552875
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લેખક, અમદાવાદ સ્થિત કંસલટંટ છે, જે નવા પ્રોજેક્ટ સ્થાપિત કરવા માટે સલાહ સૂચન આપે છે.

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Inventory is an unseen cost.

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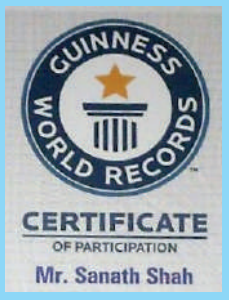
+91 9825055314 I Sanat.1957@gmail.com



Inventory is an unseen cost.

It appears to be totally necessary but is it really? Inventory could be silently eating into your profits while affecting your production efficiency.

The cost of inventory should be an area of constant concern to any business. Too much inventory not only eats up the working capital of a company and creates cash flow problems but it also needs additional space and people to manage it. Inventory is not passive or free, it actually costs money to have goods in the company and costs can be reduced by reducing the inventory levels. The opposite problem of too little inventory can cause production delays and poor customer service. Getting the balance right is essential but ultimately require Just-In-Time (JIT) deliveries from the major suppliers. A better response is to implement 'JEDI' - 'Just Enough Desirable Inventory'.

The cost of inventory

The real cost of inventory is estimated to be 30% of the total inventory held and if you hold an inventory of Rs.100,000 then the cost per year is around Rs.30,000. Little wonder that many companies now see inventory reduction as a method of freeing up cash and reducing labour costs. JIT or JEDI production methods can reduce inventory but there are other practical things you can do to start an inventory reduction programme.

Improve the inventory accuracy

If you don't know how much you have or where it is, then it doesn't exist. A high inventory accuracy (a minimum of 95%) is an essential to starting any inventory reduction process. Inventory accuracy requires well-designed cycle counting systems. These can very rapidly pay for themselves by not only counting things but also identifying and solving inventory system problems. Don't just collect the numbers, analyse them and work to improve them. At the end of the inventory reduction process the stock take process may well be redundant but at the start it is an essential tool.

Reduce the lead time

Long lead times automatically mean more inventories as Work-in-Progress (WIP) in the system. A client had a 16-week lead time for a specific supply and had 16 weeks worth of production on the factory floor at any one time – their main concern was to keep the shaws going! The space used was enormous; orders regularly got 'lost' in the factory and close to Rs. 750,000 of cash was tied up as WIP. They didn't listen, they ran out of cash and they are no longer with us. Don't start to produce an order unless you intend to do something with it. Don't make anything for anybody, make them come and get it. Reduce your production lead times to a maximum of 2 days (it only takes about an hour to make a product so 2 days in the production system is actually excessive) and issue production orders only when needed on the shop floor.

Increase the speed of operation

Inventory levels often have little to do with the level of customer service that you claim or want to provide. They are more dependent on the time taken to replace the materials used and the supplier reliability. If it takes 4 weeks to replace an item, you need to reorder when are down to 4 weeks stock at minimum (JEDI) or you risk running out of materials. Purchase from reliable suppliers with short lead times and inventories can drop dramatically. Make lead times and their reliability a key factor in the purchasing process. Short lead times from reliable suppliers can save more money than reduced 'headline' prices from unreliable suppliers.

Eliminate process misalignment

Watch out for the 'economies of scale' argument. Buy in the same units that you sell in. If you sell tens of products per week then buy tens of the raw materials per week. Buying thousands of the raw materials to get 'economies of scale' is a recipe for disaster. It creates large quantities of inventory, slow stock movement, possible product obsolescence, possible product damage and it locks cash up as inventory. Large stocks also reduce your responsiveness to customer demand - you cannot introduce new products until the entire inventory is used up. Buy what you need to match the customer consumption rate.

Specialise and throw it out

Have you ever heard: 'If we don't carry that item then the customer won't buy from us', but where else can they go if no one else stocks it? What about 'We keep the mis-measures and quality rejects, someone will buy them some day' or 'We paid too much for it to throw it away' or 'It is written off so it doesn't owe us anything'. The simple fact is that the products will all still be sitting there: taking up space, clogging the system and confusing people: get rid of them. Sell them now to generate some real cash (however small) for the business.

Get rid of the stores area (and the store man)

Stores areas are great hiding places for inventory and other redundant parts and you actually pay the store man to hide it for you! Make the operators and supervisors who use the parts responsible for ordering the parts and storing them in the production area (which is where the materials should be anyway). When they know that if they run out of parts then they stop work and don't get paid, they will order the right levels at the right times.

Devolve the responsibility to the people who suffer if the component isn't there. They will really care about it.

Putting the products by the operators also means that there is no time spent going to the stores (a great day out), filling out the forms and having a chat on the way.

Replenish based on market demand

Forecasts are educated guesses and their accuracy gets worse as they extend into the future. Use the market demand (and your high inventory accuracy) to replace the inventory as customers are actually buying products. Forecasts are always wrong and will either cost you money as excess inventory or customer service through lack of product.

Reprise

High inventory levels are not a necessity; they are a failure of management to actually manage and are a real cash drain on your business. An inventory reduction programme will pay for itself by releasing real cash into your business, releasing space for production and at the same time improving your responsiveness.

An inventory reduction programme will pay for itself many times over so what are you waiting for? There is no excuse not to start to reduce inventory today.

Sanat Shah

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A new eye to see recycling and design

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Recycling is one of the most beneficial and environmentally friendly options of all of the waste management methods. The environmental benefits of replacing incineration or landfill with recycling are numerous. Recycling diverts waste from landfills which has an impact on lower greenhouse gas emissions (GHG). Recycling also has lower environmental impacts when compared to virgin materials production i.e. avoiding oil extraction and refining which has an immediate impact on saving natural resources and energy.

Taking into account the whole plastics recycling value chain, including collection, pre-treatment/sorting, transportation, recycling and the options of energy recovery and landfilling, a significant reduction in GHG emissions is expected in 2020 if the targets set in EU legislation are met. The GHG savings of plastic recycling could therefore result in 6.5% less emissions of the EU plastics industry by 2020 and 11.5% less emissions by 2025.

Recycling is to be an important sector of the European economy as direct revenues from recycling constitute considerable and constantly growing contribution. An increase of the recycling rates targets is a prerequisite in order to have an impact not only on the environment but also on the economy and the job market in particular. It was estimated that by enforcing higher recycling rates across the Member States of European Union.

50.000 new jobs could be created by 2020 for in the recycling value chain including the recycling process itself and waste management. This increase would have an effect on down and upstream sectors as well as on the wider economy, resulting in the creation of an additional 75.000 of indirect jobs concerning construction of new recycling facilities, manufacturing equipment for recycling, maintenance of recycling facilities and equipment, research and innovation, as well as jobs related to administration and management.

Regarding the direct job creation, the most significant increase would occur at sorting and separation of material as well as at collection and recycling. It is worth noting as well that direct jobs are mainly related to low-skilled workers has and thus have an implication on social inclusion and poverty alleviation for a number of people with fewer possibilities of employment. Energy recovery on the other hand is very low job-intensive and does not have an impact on job creation. More with less is possible: creating more jobs and having less waste and in effect less pollution.

Plastic packaging recycling does not begin with collection but design. Not well thought design often leads to leftover residue in emptied packages. Wrong - prepared combinations of polymers and materials like: paper, metal, fibers in packaging can create incompatibilities with

efficient recycling processes. Recycling processes are very often hampered by: inseparable composites of polymers, use of unnecessary additives or by combining plastics with other materials like: paper, metal, fibers in a way that that does not allow for an easy separation.

The criterion of the packaging design nowadays is its high performance. The new challenge, however, should be to incorporate the recyclability aspect and to make it a requirement on top of the other performance criteria like: product safety, transport safety, shelf life, marketing & branding as well as recyclability. It is important to balance those various objectives of a plastic package.

RecyClass' aim is to improve the design of packaging so that it is easily recyclable into a quality secondary raw material to then be used in a new plastic product. Far too much of plastic pack- aging is not fit for this purpose and hence destined for energy recovery only – the last but one option in the waste hierarchy pyramid.

Recy Class is an online tool which allows the assess-ment of virtually any plastic package from the point of view of its recyclability. The tool uses the class system from A to G which resembles the energy efficiency rating. In a few simple steps the environmentally-friendly design of a package can be verified

The tool provides advice and recommendations on how to improve design of packaging in case the packaging scores rather poorly in the assessment. In the last step of the evaluation, the package can be certified by an expert in order to use the Recyclass branding.

By improving packaging design, RecyClass will help divert substantial quantities of plastics away from

landfill & incineration and help reach the new higher recycling targets while saving the natural resources

This initiative has been taken by Plastics Recyclers Europe

(Plastics Recyclers Europe , in Brussels was created in 1996 to represent plastics recyclers in Europe. When created the association had 7 members. Currently Plastics Recyclers Europe has more than 120 members from all over the EU and this number will continue to grow.

In the first years of creation, PRE recycled 200 000 tonnes of plastic waste. Today this amount reached 2.5 million tonnes and will continue to grow.)

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Plastics is not environment eroding, on the contrary it assist to preserve environment! Plastic's penetration is unavoidable if we need to protect environment and still wish to save cost and time and without polluting anything around us and we can make al the product re-cyclable.

Environment and cost are the two major factors now to be considered which all look at. Need to save environment and also not to let the cost be higher is the need of the time.

The construction sector is one major thrust area for the development and also it is a serious need. The construction sector is to have serious boost and also the need of replacement of wood is sought for to preserve environment not to de-forest.

1. Modi government declared that there shall be one hose for each family by 2022. This will need a lot of Wood for the furniture/ cabinets/ doors and frames.
2. 65% of the existing buildings Nation-wide needs replacement of wood on account of a) Termite rotten, b) water / moisture effect c) Aged
3. The younger generation needs replacement faster and change everything within or before 4-5 years
4. The wood is becoming scarce by each day and is costlier.
5. Wood needs a lot of wood working on it, laminate / color or varnish to finish
6. There are hundreds of companies in organized sectors making plywood BUT there are still thousands in unorganized sector manufacturing of plywood and doors and all sorts of wood.

A. The option is plastic. PVC foamed boards. These are new replacement products made from Plastics with filler and additives as here below.

1. PVC / Wood plastic foamed boards of thickness 4 to 22 mm in four feet width which is replacing Plywood board of all thicknesses and
2. PVC board of thickness 25 to 35 mm to replace the flush-doors made in three feet width.

(B) The next option is PVC Laminate made in 1 mm or even thinner to replace laminate (Mica)
This is made from PVC + CaCO3 and additives and can be made unbreakable upon bending many times. This product proves much cheaper to be used as core adding higher amount of CaCO3 (tis is breakable) This avoids use of formaldehyde and paper and is pollution free.
(C) PVC marble look-alike boards for walls. This replaces Marble and Granite on walls, is not breakable and absolutely maintenance free and much stronger and cheaper.

This product can be made on 2 to 8 mm thickness as the need be but mostly used at 2.8 to 3.5 mm thickness.

This replaces traditional Marble and Granite and is much cheaper, needs almost nil labor as compared to Marble.
(D) SPC Flooring product to replace WOOD Again , avoiding stink, dirt, deforestation, and much more, made with PVC + CaCO3 and additibves this product can be made in 4 mm (one layer) to 6 mm (three layer) thickness.
This also eliminates the need of not only wood but also that of Tiles .
(E) When the construction sector is boosting , will need many doors and frames and still we need to save wood we have an option.
That is Wood + plastic Doors and frames known as WPVC Doors and frames
Made from Wood plus PVC and additives, this product is again termite-proof and water-proof neeidng almost nil maintenance, not miuch of wood working, can be made availabel ready-made without the need of any sort of carpentry on it, no color and no varnish. Still if the need be, can be colored. This product can save hugh wood.
(F) We need a lot of wood [marine ply] to construct buildings or we need a lot of metal which erodes and offers poor walit fo surface. We have an option of Plastic + CaCo3 construction boards. This product can be used for 80 to 100 times, needing no oiling while reusing and offers best possible smoth surface. Post using so many times, it is 100% re-cyclable. And also can be made form Re-cycled plastic and so is proves much cheaper. This is a real wonder product.
(G) PVC three layed Foamed roofing sheet to replace metal roofing sheets. This product can be made in 5 to 8 mm thickness to make sound and heat proof- Almost. Is almost unbreakable again and strongest, does not get rsuted and are flexible do not get dents or bend.
This roof does not get heated up and does not let the heat pass through it. Also absorbs much of rain noise.
(H). There are many more products still needing plastic. Like say a sanitary napkin for women is also about 26% of plastic by weight.
Poly-propylene hydro-filled non woven plastic, SAP plastic, Plastic taps and packaging of it are all Plastics.
Uncontrolled population explosion, almost everything is subsidies in villages, development, Media, education,

transportation….. all these factors pushed consumption of Sanitary Napkin.

o Government and Environmentalists have been and will always cry on the mass usage and illegal / non-genuine / nonsense / irresponsible disposal of Plastics, Paper, wood and all such resources.

o This country is helplessly tolerable to the results of dangerous democracy, courtesy age-old constitutions, which, most intellectuals cannot bear with.

o Another limitation is 'no-alternate or option-situation' to the usage of such resources.

o Sanitary Napkin is one such item that is needed badly for the courteous and able (in fact capable) society helped by the jacked up spending power and economy and mass media.

The scope of plastics is unlimited, unavoidable and no use to keep on crying "BAN the plastic", if we are literate enough and vote for equally litearte and Patriotic Leaders, we need not botehr such time-pass nuisance of fighting against plastic.

Jai HIND.

Kamal Shah






+VE

KAMAL SHAH **positiveaggression** Ahmedabad 9624112091-WhatsApp 9879552875 mail@positiveaggression.in

Door frame to be made from **PVC + CaCO3** + **Rice husk**.  Environment friendly, eliminating use of Wood.

There is lot of Rice husk which is otehrwise burnt, can be used to make this almost eco-friendly product, and while usage also replaces wood entirely and does not need to color or varnish either.

Machinery	8100000
Land	5000000
Building	5000000
Utilities	2500000
Others	1000000
Total Initial project cost	21600000

Material	Cost per Kg
Rice Husk+ PVC+ CacO3+ Additives	62.7
Conversion cost Approximately	14
Total Cost per Kg	76.7
Realization per Kg	150
Assume realization at just at Rs. post apportioning all the costs	125
Net. Profit possibility per Kg	48.3
Production per hour can be 150 Kg. So profit per hour	7245
per day of 24 hours	173880
per month of 26 days	4520880
per year of 312 days	54250560
Assume to work just for 10 hours a day, profit can be	22604400

The above is most important data. Have a look at the project costs:

Save wood, save trees, save ourselves. Go for no-maintenance, termite-proof, fire-resistant, water hating door frame.

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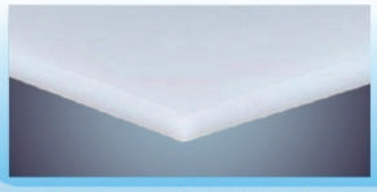
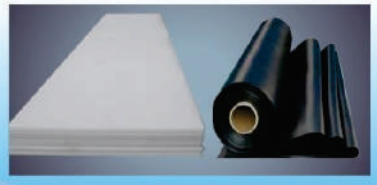


APPLICATIONS

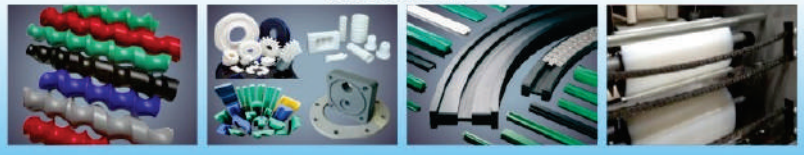
DULENE - R (HDPE SHEETS)



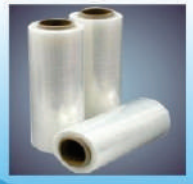
APPLICATIONS

PP/HDPE/PVC Solid Rods

APPLICATIONS



DUWRAP (STRETCH FILM)



APPLICATIONS

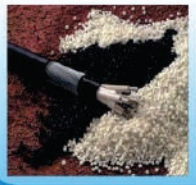
AYUSHLIN- H/L (HM /LD LINER & LINER BAGS)

APPLICATIONS

DUPRENE-G (PPGL SHEETS)

APPLICATIONS

DUVINN (PVC CABLE COMPOUND)



APPLICATIONS

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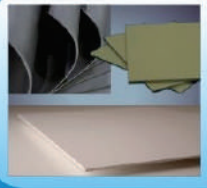

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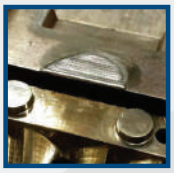

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