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PLASTIC TOMORROW

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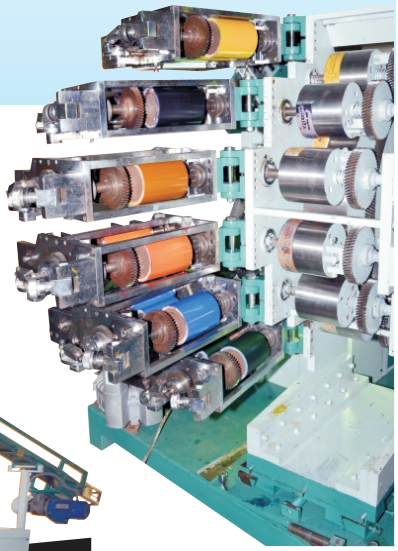

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QR code marking for Technical Rubber Goods
100% Tracebility with "black on black" SCANNECT™ Laser Marking

4JET Technologies GmbH (Alsdorf, Germany) has developed a solution to individually mark technical rubber goods with a unique and permanent QR (quick response) code that can be identified with industrial cameras and a smart phone app.

4JET´s novel laser marking process – originally developed for the tire industry - engraves an individual QR code in rubber. The high contrast engraving can be read using public domain apps available for Apple iOS or Android devices.

The SCANNECT™ solution – short for "scan and connect" - enables a long standing wish of the rubber industry: being able to trace products through their life cycle.

Other than machine readable paper barcode stickers, SCANNECT™ QR codes are permanently recessed into the rubber surface.

The crisp laser markings are either applied in the factory or further downstream in the assembly process.

Compared to conventional laser marking, which only leaves a low contrast mark on the usually black rubber surface, the SCANNECT™ process creates a deep black marking on the bottom of the engraving, providing enough contrast to be read with cameras in mobile devices. The proprietary process, comprising special optics, laser parameters and control software integrated in 4JET´s standard marking systems is now commercially available.

Marking is performed by 4JET´s proven line of laser systems that are already widely used in new tire and retread tire manufacturing worldwide.

Link to high-resolution picture
http://presse.4jet.de/bilder/tire/DSC4317.JPG

About 4JET

4JET supplies laser systems for processing delicate technical surfaces for the tire-, automotive industry. In the company´s Alsdorf facility a team of engineers and physicists develops laser processes and integrated manufacturing tools for industrial applications. The customers in over 35 countries are served by an international network for sales and service.

http://www.4jet.de/en/

Courtesy

New Avery Dennison complete compliance: the reliable choice

Avery Dennison Label and Packaging Materials has created a new set of tools designed to help customers choose products that are fully compliant with regulations.

Burak Sahbaz, director paper and variable information, Avery Dennison Europe, said that Complete Compliance is about working with converters and brand owners – supporting them in meeting all necessary regulatory demands: "Avery Dennison has created a package of services and portfolios help solve our customers' challenges in the compliance landscape. Label converters can now offer materials to their customers with confidence, knowing that any offering in the Complete Compliance range is fully compliant with regulation."

Cor Verhart, director Compliance for Europe said that certificates and statements are crucial for Avery Dennison's customers: "So we can support converters more quickly and easily, we have created an online application. It can generate immediate customized compliance statements for converters, which can be downloaded straight away.

Support extends beyond immediate application needs; Reliable, complete and up-to-date compliance information can be found on the new Complete Compliance portal. The portal covers a large amount of information on the various (EU) regulations, and also links to a number of compliant portfolios including food and direct fatty-food approved products; British Standard (BS) 5609 labelling; and the current listing on SVHC, such as BPA-free materials. Cor Verhart said that the goal of the new website was to meet all compliance needs in one place whenever possible: "The breadth of projects supported by Avery Dennison's experts around the globe means that all current regulations are taken into account, and a close watch is maintained on future trends. If a trend is emerging, we want converters to know ahead of time."

www.averydennison.com

Courtesy

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Plastic Tomorrow

Published & Printed by
DINESH J SHAH

Editors Note

Dear Readers

Greetings from Team Plastic Tomorrow

Team Plastic Tomorrow Magazine thanks to its Readers, Advertisers and Well Wishers for their usher support & facilitated in reaching our Magazine to China through the biggest gateway ChinaPlas. The magazines were distributed free at ChinaPlas 2017 exhibition. Chinese companies appreciated our magazine and its content and assured business in near future.

Two Major Expos to Boost Indian Plastic Industry

Indian Plastic Industry to witness two major expos IPLEX 2017 &PlastAsia 2017in the coming months.

The IPLEX'17, the 8th Edition is being held at the Trade Centre in Chennai, India from June 15th to 18th 2017. This IPLEX'17 is the image of the successful past 07 Editions held at Southern Cities of India, which was supported immensely by the industries across India & Globe. It has the patronage from the major polymer producers and Govt. of India along with local governments.

IPLEX is an exhibition on plastics in India which provides opportunities for the manufacturers of processing machinery, auxiliary equipment and finished goods to showcase their capabilities and widen their market base. The exposition will display the latest developments in technology of processing, choice of raw materials, additives, etc. It is anticipated that 40,000+ visitors to visit IPLEX'17 over 4 days. This includes a wide range of visitors with different profiles who come here for a handshake and making business connections.

PLASTASIA-2017 in its sixth edition is being held at the PragatiMaidan in New Delhi, India from July8th to 11th 2017. PLASTASIAwill showcase the latest technology and machineries used in manufacturing of plastics and petrochemicals with participation from different parts of the world.

PLASTASIA-2017 is perfectly timed for the continuing boom in plastics and rubber industry. As the petrochemical industry is a major contributor to PLASTASIA-2017's growing economy, this event will give a great impetus to its further diversification and growth as well as highlighting the opportunities this region might offer.

The event will attract key industry players and decision-makers from the corporate and public sectors in the region providing a strategic setting to forge business tie-ups and contacts.
International participants from China,Japan,Korea,Malaysia,Russia, Singapore, Vietnam, Thailand & Taiwan. are the major highlights of PLASTASIA-2017 Exhibition.

Best Regards

Dinesh Shah
Editor in Chief
Plastic Tomorrow

Milacron Marks another Milestone in India – Milacron Delivers the 12,501st Indian Made Injection Molding Machine

Milacron Holdings Corp. a leading industrial technology company serving the plastics processing industry, is proud to announce the completion of another significant milestone in our India based operations - the manufacture, sale and delivery of the 12,501st injection molding machine from the Ahmedabad, India manufacturing facility.

On March 22nd, Milacron's India manufacturing team presented its 12,501st India manufactured machine. The Milacron Magna Toggle 450 ton 2K machine was handed over with great celebration to Mr. Vagish Dixit – Managing Director, Alpla India Company.

Milacron CEO Tom Goeke stated, "India is a vital market for Milacron and it continues to impress. Milacron places great importance in the Indian market and we're uniquely positioned to serve it in ways our competition simply cannot with our ability to deliver the entire spectrum of services to the plastics industry."

During the celebration at the Ahmedabad facility, Vagish Dixit stated, "Milacron is a progressive organization with innovation in engineering design and manufacturing. We're extremely pleased with our partnership with Milacron in India." Dixit added, "Milacron has fostered our relationship over the last 17 years, when we bought our first injection molding machine. The enthusiasm towards their work and commitment towards customers are the key strengths behind the consistent success of Milacron. The technologies Milacron provides us increase our productivity and the competitiveness of our products."

During the celebration, Milacron India's Managing Director, Shirish Divigi, thanked Alpla India for their business and loyalty over the almost two-decade partnership. "As India's plastics industry continues to grow, Milacron's Indian operations will continue to excel and offer the industry's most complete plastics offering." Divigi added, "The entire Milacron organization is focused on a customer first mentality. We continue to add new value added products and services to better serve our customers in India and across the world. Our customers feel fully supported and connected with our team."

Milacron India's Ahmedabad facility completed its most recent expansion in 2016. The expansion allowed Milacron to increase its annual output of 1,500 injection and blow molding machines to 2,100 machines per annum, a 40% increase.

www.milacron.com

Courtesy

NEW PRODUCT DESIGN & DEVELOPMENT DRIVES INNOVATION FOR ALL BY STAMOD ENGINEERING SOLUTIONS

STAMOD Engineering Solutions is a product design and engineering solutions company. STAMOD proffers superior sustenance engineering and professional services to maintain, enhance, and support products throughout their lifecycle. The company has established Center of Excellences in line with their processes, applications, and technology which enable them to provide domain centric offerings.

With 100+ many years of experience, the company not only excels in the practical but theoretical knowledge of designing as well. STAMOD Solutions is a portfolio company of ALCOR Fund. STAMOD is a leader in product engineering and design solutions, specializing in product engineering services, integrated prototype solutions, and R&D services.

Faster Design and Development Process

STAMOD provides designs for automotive and mechanical products. Understanding the complexity of the tool designing, our engineers focus on designing such that the manufacturing process is assured & simplicity of tooling is maintained. We provide various services including Engineering Design, Engineering Analysis, Simulation, Multi-body Dynamics, Virtual Prototyping & Testing, Digital Manufacturing, Product Data Management, Technical Publication, CAD conversion services, 3D white light scanning, Scanner, rapid prototyping mode (facility of 75000 Sq. feet), Reverse, mould making as well as 3D scanning.

Creative, Industrial Design Skills with Solid Engineering

STAMOD Engineering skill is to give their industrial designers free reign to create aesthetic images to challenge their clients and focus groups. Our design engineers then develop selected designs through visualization, 3D modeling, engineering design, detailing, prototype, testing and on into manufacture. STAMOD Engineering is driven by talented and passionate engineers guided by seasoned technocrats with several years of international experience. We commit and deliver high quality, faster and innovative solutions coupled with cost-effectiveness and productivity.

www.stamod.com

Courtesy

BUSINESS NEWS

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PLASTIC TOMORROW

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UNILEVER DEVELOPS NEW TECHNOLOGY TO TACKLE THE GLOBAL ISSUE OF PLASTIC SACHET WASTE

Unilever today unveiled its ground-breaking new technology to recycle sachet waste. This technology, called CreaSolv® Process, has been developed with the Fraunhofer Institute for Process Engineering and Packaging IVV in Germany and is inspired by an innovation used to recycle TV sets.

•Hundreds of billions of plastic sachets are thrown away globally every year.

•Unilever has developed ground-breaking new technology to recycle sachets.

• Circular economy in action: sachets will be turned into plastic and channelled back into the supply chain.

• Today, only 14% of all plastic packaging is recycled globally.

• Unilever has pledged to make 100% of packaging recyclable, reusable or compostable by 2025.

Billions of single-use sachets are sold every year, particularly in developing and emerging markets. Sachets are extremely resource efficient and allow low-income consumers to buy small amounts of products that would otherwise be unaffordable to them. But without a viable recycling solution, sachet packaging ends up in landfill or as litter. As part of its Sustainable Living Plan, Unilever has long been committed to finding an alternative to throwing sachets away.

CreaSolv® Process technology has been adapted from a method used to separate brominated flame retardants from waste electrical and electronic equipment polymers. During the process, the plastic is recovered from the sachet, and the plastic then used to create new sachets for Unilever products - creating a full circular economy approach.

Commenting, David Blanchard, Chief R&D Officer said:

"Billions of sachets are used once and just thrown away, all over the world, ending up in landfill or in our waterways and oceans. At the start of this year we made a commitment to help solve this problem, developing new recycling technologies. We intend to make this tech open source and would hope to scale the technology with industry partners, so others – including our competitors – can use it.

"There is a clear economic case for delivering this. We know that globally $80-120bn is lost to the economy through failing to properly recycle plastics each year. Finding a solution represents a huge opportunity. We believe that our commitment to making 100% of our packaging recyclable, reusable or compostable will support the long-term growth of our business."

Unilever will open a pilot plant in Indonesia later this year to test the long-term commercial viability of the technology. Indonesia, is a critical country in which to tackle waste, producing 64m tonnes every year, with 1.3m tonnes ending up in the ocean.

To tackle the industry-wide sachet waste issue, Unilever is looking to create a sustainable system change by setting up waste collection schemes to channel the sachets to be recycled. Currently Unilever is testing this by working with local waste banks, governments and retailers and will look to empower waste pickers, integrate them into the mainstream economy and to provide a potential long term income, generating wider growth in the economy.

This announcement is part of Unilever's pledge to ensure all of its plastic packaging is fully reusable, recyclable or compostable by 2025. Unilever had already committed to reducing the weight of its packaging by one-third by 2020 and increasing the use of recycled plastic content in its packaging to at least 25% by 2025.

Dr. Andreas Mäurer, Department Head of Plastic Recycling at the Fraunhofer IVV said:

"With this innovative pilot plant we can, for the first time ever, recycle high-value polymers from dirty, post-consumer, multi-layer sachets. Our aim is to prove the economic profitability and environmental benefits of the CreaSolv® Process. Our calculations indicate that we are able to recover six kilos of pure polymers with the same energy effort as the production of one kilo of virgin polymer."

While this new technology represents a major step forward, plastic waste is a multi-faceted challenge that will require continued innovation in technology, design, delivery models and materials to create a full circular economy for plastics. Unilever will continue its work with the Ellen MacArthur Foundation's New Plastics Economy initiative and continue looking for additional solutions.

lwww.unilever.com Courtesy

Milliken Acquires Keystone Aniline Corporation to Better Serve Global Colorant Customers

Two privately held, family-owned companies share culture and values

Milliken & Company, a leading supplier of polymer-bound colorants and additives, today announced that it has acquired Keystone Aniline Corporation, a global leader in dyes, pigments, pigment dispersions and polymers, headquartered in Chicago, Ill. This move joins two successful organizations with complementary expertise and capabilities to offer customers a broader array of advanced colorant solutions, technologies and services. Further, the acquisition enables customers to streamline their supply chains by allowing them to obtain a wider range of products from a single source. Customers will see enhanced reliability of supply through Milliken's acquirement of Keystone's multiple facilities around the world.

"This acquisition has far-reaching benefits for everyone involved," said Russ Rudolph, Vice President, Performance Colorants & Ingredients for Milliken. "Our combined customers win through greater availability of proven colorant technologies and resources that can help them penetrate and grow new markets to gain a competitive advantage. Our suppliers can expect new opportunities that will allow them to play a greater role in serving our expanded organization. From a business perspective, we look forward to accelerating our growth and creating greater value."

Complementary Expertise, Shared Strengths

Both Milliken and Keystone currently provide colorant technologies to the agricultural, plastics, coatings, inks and household institutional and industrial markets. Their customers rarely overlap because, until today, the two companies had specialized in different product areas. With a core focus on polymeric colorants, Milliken's Performance Colorants & Ingredients business is renowned for its innovative chemistry and ability to synthesize new molecules, while Keystone brings exceptional formulation skills and application development technology to the table, creating a robust portfolio.

"By combining our product portfolios and specialized colorant knowledge with Milliken's solutions and expertise, we create business and market synergies that will drive new global opportunities and better meet the evolving needs of our customers," said John Andrews, CEO of Keystone. "The resulting organization will possess greater breadth and depth across the board, from research and development to formulation capabilities, quality control and product stewardship. This partnership will be a part of Milliken's future growth and success."

Both entities are privately held, family-owned companies with long histories in the colorants industry: 97 years for Keystone and 152 for Milliken. They share fundamental values including a strong emphasis on business ethics, as demonstrated by their leadership in regulatory compliance and safety. Both have been successful individually, with growth rates that exceed the market average. Milliken and Keystone operate globally, with facilities in North America, Europe, Latin America and Asia.

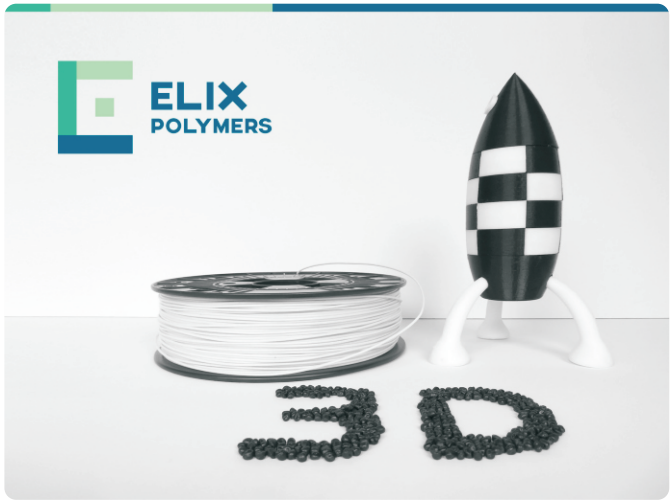
www.millikenchemical.com

Courtesy

EXHIBITION DETAIL

NAME OF THE EXHIBITION	PLACE	DATE
COMPLAST	KENYA (NAIROBI)	8TH TO 10 JUNE-2017
PLAST ASIA-2017	PRAGATI MAIDAN (NEW DELHI)	8TH TO 11 JULY-2017
COMPLAST	COLOMBO (SRILANKA)	3TH TO 5TH AUG-2017
PPP EXPO AFRICA	TANZANIA (AFRICA)	22-24 AUGUST=2017
GHANAPLAST	GHANA INT.TRADE FARE CENTRE	6-8 OCT-2017
COMPLAST	JOHANNESBURG (SOUTH AFRICA)	16TH TO 18 NOV-2017
COMPLAST	CHIMINH CITY (VIETNAM)	10TH TO 12 JAN-2018
PLAST INDIA-2018	GANDHINAGAR (AHMEDABAD)	7TH TO 12 FEBRUARY 2018
COMPLAST	YONGON (MYANMAR)	10TH TO 12 MAY-2018
IPLEX-2018	HITEX EXHIBITION CENTERR (HYDERABAD)	3RD TO 6TH AUGUST-2018

ELIX Polymers extends its portfolio of ABS grades for 3D printing



ELIX Polymers is developing additional specialty grades of ABS optimized for 3D printing, in the wake of high interest shown in its initial offering at K 2016 in Düsseldorf last October.

"We got an improved idea of the high potential growth rates of the 3D printing market during the show," Fabian Herter, Industry Manager Automotive, says. "We think ELIX can be an important player in this exciting market. 3D printing fits well with our strategy of focusing in specialty businesses with tailor-made products and services."

ELIX is the right partner for companies involved in 3D printing, thanks to its flexibility in production and the huge bank of polymer knowledge it has acquired over the last 40 years, Fabian Herter says. He also notes that 3D printing applications are in line with the ELIX strategy of developing a more sustainable portfolio. "3D printing technology can cut costs and time in development, a more efficient use of materials is possible, and final products can be customized to make them fitter for purpose," he says.

ELIX will offer 3D printing grades that have been optimized after detailed analysis of specific customer needs. Some new grades have already been validated at filament producers, 3D printer makers and final part manufacturers who use Fused Filament Fabrication (FFF), more commonly known as FDM (Fused Deposition Modelling). This technology has a broad scope of applications, in sectors such as automotive, healthcare, aerospace, E&E, consumer products, and toys.

So far, ELIX has optimized five ABS grades for 3D printing, each of them fulfilling different customer requirements. All exhibit improved printing performance, low warpage, dimensional precision and high resolution. The portfolio includes a general purpose grade (ELIX ABS-3D GP), a grade that fulfill food contact materials regulation no. 10/2011 and biocompatibility standards (ISO 10993-1 and USP class VI) for food contact and medical applications (ELIX ABS-3D FC), a high impact grade (ELIX ABS-3D HI), a grade with improved interlayer adhesion for complex parts (ELIX ABS-3D LA), and an ABS reinforced with natural fibers that produces a wood-like appearance when used on special 3D printers (ELIX ABS-3D NF). All grades are available in natural or precolored in various shades.

ELIX intends to supervise the complete 3D printing value chain. To this end, it is already cooperating with several leading printer producers and 3D software providers. "The scope is not only to develop new formulations, but also to identify the right partners and create a database with validated filament producers," Antonio Prunera, Head of Quality Business Development says.

ELIX is offering technical support, including recommendations on correct processing set-ups: extruder screw design, drive system and spool system. The objective is to obtain the filament with the best quality properties in typical thicknesses of 1.75 mm and 2.85 mm and validate the material to meet the requirements of the final application. ELIX has defined its own demanding material tests to evaluate the final filament quality.

www.elix-polymers.com

Courtesy

HUSKY ANNOUNCES STRATEGIC EXPANSION FOCUSED ON CUSTOMER SUCCESS AND LONG-TERM GROWTH

Husky Injection Molding Systems, a leading industrial technology provider to the plastics processing community, today announced changes that support its ongoing commitment to customer success and its goal of strategic growth.

Husky has become well known for a regular cadence of innovation in both tooling and fully integrated injection molding systems. In 2015, Husky launched its revolutionary new Multi-Layer Technology, a development that helps customers bring safer, morecost-effective and attractive packages to market. It also launched the first ever self-cleaning mold for PET preform manufacturing that significantly reduces mold maintenance hours and improves annual productivity by more than 5%. Then in 2016, Huskyannounced the release of its next generation beverage closure system, HyCAP™4. At K Fair 2016 in Düsseldorf Germany, Husky demonstrated its new HyperSync™ system for the first time, showcasing the industry's only fully integrated system for the manufactureof specialty closures.

To continue to expand capabilities, foster new innovations and grow further beyond its core markets, Husky has appointed Robert Domodossola to the role of President, Medical and Specialty Packaging. Mr. Domodossola has progressed through

a number ofdesign and engineering management roles, most recently serving as Husky's Vice President of Engineering and Business Development. He holds a Bachelor of Science, Mechanical Engineering degree from the University of Toronto. With this experience, Mr. Domodossolawill look to further develop the company's strong foothold in tooling and expand Husky's complete system offerings to adjacent markets. "I've had the pleasure of leading our research and development teams at Husky and have been most proud of how our go-to-marketstrategies and our ability to industrialize products has supported Husky's growth," said Mr. Domodossola. "I'm excited to now be leading our Medical and Specialty Packaging business, and am confident in our ability to deliver superior value to our customers."

As an industry leader and with the regular introduction of new products and services, Husky has increased its install base of equipment globally. To continue to support systems in the field the company has formed a new organization focused on CustomerSuccess Management (CSM). This organization is dedicated to proactive support for customers, building stronger partnerships and working with customers to ensure that their investment in Husky equipment is optimized. To lead this organization, Husky hasappointed SrdjanMucibabic to the role of President, Customer Success Management. Mr. Mucibabic began his career with Husky in 1997, holding several key roles within the company and gaining multidisciplinary experience in Development Engineering, Operationsand Service. Prior to taking on the role of President, Mr. Mucibabic was the Vice President of Husky's award winning service organization. Mr. Mucibabic is a Professional Engineer and holds a Bachelor of Science degree in Electrical Engineering with amajor in Automation and Electronics. "CSM is an evolution of Husky's award-winning customer service. Our immediate goal is to expand Husky's existing service offerings to help customers further protect and improve their bottom line," said Mr. Mucibabic. "As automation and connectivity continueto change manufacturing, CSM will enhance our service offerings and also develop new supporting technologies for our customers."

Aimed at aligning more closely with a growing customer base and to accelerate development around evolving consumer and market demands, these changes ensure that Husky will continue to deliver exceptional value and continuous innovation to its customers.

www.husky.ca

Courtesy

JAYAKANT NANAVATI
President (Vadodara)

MESSAGE FROM PLASTIC PROCESSORS (GUJ) ASSOCIATION , VADODARA.

Plastic packaging is a very vast & fast business which gives employment to so many peoples and rag pickers who earn money from wastage of Milk bags, water Bottles, Carry Bags etc.

Consumption of plastic in India is only 12 kg. Per head, this is very low compare to other countries in the world. But "**the Government of other countries are aware and strict for not to throw any types of wastage on the ground and Proper collection system is also there.**"

Plastic packing material is cheapest, eco-friendly and best product for packaging all types of products in daily use. But the best part is during monsoon the plastic carry bags save food, vegetables, fruits and many other things from the moisture.

For the longest time we have been struggling with the wrong image of plastics. Detractors speak about disposal of plastic being a huge problem. Environmentalists keep raising issue on the manufacturing, Storage, Usage and disposal. There is a large scale negative campaign doing the rounds across the nation. But Correct disposal and recycling is the best and only option for reusing plastic.

"**Can we not able to educate the common man on correct disposable of plastic goods?"** All active movement to change mindsets must be initiated. Along with corporation, we can initiate disposal and segregation drives.

This is one way we can ensure that we pave the path for a "PLASTIC-AWARE" INDIA.

Thank you for all the support to Plastic Industries and all the best for future to "PLASTIC TOMORROW'" magazine.

President
PLASTIC PROCESSORS (GUJ.) ASSOCIATION, VADODARA.
JAYAKANTBHAI NANAVATI.

Thank you,

Entry of PLASTICS tomorrow in CHINA through The Biggest Gateway CHINA PLAS

Supposed to be the world's NO 02 biggest exhibition by Size and the participants, CHINAPLAS is held each alternate year in ShangHai and GuangZhou. 2017 was at GuangZhou between 16th till 19th May.

Plastics Tomorrow entered CHINA from 2017. As seen by many established Chinese companies, and reviewed also in-depth with their nice suggestions to modify the Magazine Advertisements as per the Chinese eyes are used to look at.

The companies also praised the qualities of techno-commercial articles with the necessary information in the magazine for the initial information enough for people to get enthused to learn the project/s. The most basic investment figures and pictures of the products given by the authors of such articles, was in particular appreciated by the Chinese companies who offered their machinery and products to be made by their machinery to incorporate from next magazine onwards.

The France-collaborated company GPM Machinery of ShangHai, specially offered to include their main plants and machinery to make **LVT flooring which is known as SPC in CHINA** which is in fact a flooring product to replace wood entirely. This of their initiations, was courtesy their liking for the Magazine and its International styled Get up and Presentation, with the quality of Technical information as provided for, in the Magazine: "PLASTICS tomorrow."

The Chinese are forward to replace wood from many applications all over, and promote plastics which is recyclable too and harmless as long as it has thickness. The PLASTICS TOMORROW also assists the society in a way assisting steps of industrialists to avoid de-forestation. More and more use of Plastics as promoted by Industrialists and as assisted by Magazines like PLASTICS TOMORROW, can help save lot of trees, de-forestation and environment.

Reach of 'PLASTIC TOMORROW' to CHINA, the Gateway to the Business opportunities for INDIANS, the motto is achieved and National interest served in a big way. INDIAN companies can come forward now to spread in to CHINA through "Plastic Tomorrow'. WELCOME.

LET us come together and join hand for the prosperity of all.

Jai HIND.

Do Not Litter.
Keep Your Environment Clean

- Segregate and Throw Waste only in Waste Bins.
- Use Two Bins - one for Wet Waste, One for Dry Waste.

Plastics, Metals Paper...
Can be recycled into useful products.

Waste Food and other Biodegradable Waste
Can be composted into manure.

With Best Compliment
PLASTIC PROCESSERS (GUJ.) ASSOCIATION VADODARA

PLASTIC ARE SAFE & HYGIENIC MEDIUM FOR PACKAGING FOOD & FOOD PRODUCT

Dominating Factors of Plastics Packaging for a Global Market Penetration

DO NOT PACK & LITTER WASTE FOOD IN CARRY BAG
AVOID PLASTIC ENTERING IN TO ANIMAL BODY

Jaykant Nanavati
98250 46336
Polymer Plast

Madan Jain
98250 88354
Vinmar Polymer Product

Pradip Sadaria
9727071116
Sona flex Ind.

Sanat Shah

Lean Manufacturing Example - How To Make Your Injection Molding Business 5% More Productive Immediately And Save Costs

Here is a lean manufacturing example that will get injection molders at least 5% more productivity immediately
without spending a Rupee.
The technique I use in this example is based upon 5% Rule.

5% Rule says that most injection moulding machines can give at least 5% more productivity because cycle times have not been optimized.

Have you ever noticed in a manufacturing company how a certain culture exists whereby a particular level of production becomes acceptable and few people are willing to question how much more productivity is possible with the existing machinery?

The machine operator might have become complacent because the management have also become complacent or the management don't have the technical background to understand how the process could be improved. Instead management are considering investing hundreds of thousands of Rupees in new machinery with new technology.

Before investing in new equipment why not see how much more productivity your existing machinery has to offer?

Cycle Time Reduction

If cycle time is reduced by 5% then productivity will increase by 5%.

Take, for example, an injection molding machine producing a food container part.

If the annual requirement of this part is 400,000 then with 5% more productivity this machine will produce 420,000 parts which is 20,000 more parts per year. And if each product sells for Rs.2 then this is an increase of Rs.40, 000 in sales revenue per year per machine - a tidy return for very little investment of time.

What's more, if there are ten machines in your company with the same production requirements the extra sales revenue will be Rs.400, 000 per year.

And how do I expect to achieve this 5 % extra productivity immediately without any investment of money?

Let me explain with a lean manufacturing example.

Lean Manufacturing Example

Consider the same injection moulding machine producing a food containers with a cycle time of 9.1 seconds. If the cycle time is reduced by 5% then the cycle becomes 8.6 seconds which means some part of the cycle needs to be reduced by 0.5 seconds. In the injection moulding process there are typically 6 phases that occur during each cycle.

The 6 phases:

1. Mould closing
2. Injection of plastic into the mould
3. Holding of plastic in the mould to allow proper formation of the container
4. Cooling of the container so that it is rigid enough to eject from the mould
5. Opening stroke of the mould
6. Ejection time; the container can be physically ejected off the mould

The following is a real life example performed on an injection molding machine running a 2 cavity mould.

The 9.1 second cycle time had the following breakdown:

Phase (seconds)

1. Closing 1.3
2. Injection 1.2
3. Hold 2.0
4. Cooling 2.1
5. Opening 1.5
6. Ejection 1.0

Total 9.1

In order to reduce the cycle time by 0.5 seconds, the first thing considered was the phase that would have the smallest effect on part quality. This was the ejection time.

In this example the ejection was started 0.2 seconds earlier while the mould was still in the opening stroke. There was no need to wait for the moving side to completely stop before starting the ejection stroke. Therefore, the ejection time was reduced to 0.8.

Additionally, the opening and closing times were reduced by 0.1 each saving another 0.2 seconds by reducing the opening stroke.

Another 0.1 was subtracted from the cooling time which achieved our target of 0.5 seconds. Although the part shrinkage was slightly more it was still within the quality limits and made no difference to the end user.

Here is a summary of the changes:

1. Closing 1.3 reduced to 1.2
2. Injection 1.2 unchanged
3. Hold 2.0 unchanged
4. Cooling 2.1 reduced to 2.0
5. Opening 1.5 reduced to 1.4
6. Ejection 1.0 reduced to 0.8

Total cycle changed from 9.1 to 8.6 seconds without effecting quality

Additional Comments

From this case study one can see that there are 6 parameters that could be used to share the 0.5 second reduction in cycle time. This means there are several combinations that could be used to reduce the cycle time. For example, in the above example as it turns out the hold time could have been reduced by 0.2 seconds without any change in part quality.

It's a matter of looking at each mould and machine combination on a case by case basis. To see what works best. In some cases the mould and machine might already be operating at their limits so it is not possible to reduce cycle time.

Also, on some molding machines the plasticizing screw recovery time will have an effect on cycle time if the machine doesn't have a shut off nozzle.

Injection moulding companies have millions of Rupees invested in machinery and tooling so it is vital to get the most out of them. The right mindset is important to run efficiently as possible so as a factory owner, manager, leading hand or moulding technician you should be asking yourself how can I improve productivity by 5% today?

Exercise

I would like you to choose one moulding machine in your company that is producing a part with a stable cycle time and attempt to reduce that cycle time by 5% by using the above lean manufacturing example as a guide.

And once you have established a 5% cycle time reduction on a particular machine, try reducing the cycle time by another 5% until quality issues become your limiting factor. Use this approach on every machine in the company. Target one machine per week and just see how much more productivity can be achieved. You might be surprised how much difference it could make.

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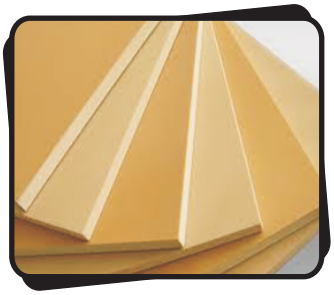
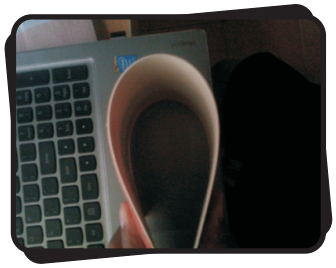
પ્લાસ્ટિક એ આશિર્વાદ સાબિત થતું જાય છે. પ્લાસ્ટિકના વપરાશનો વિરોધ કરનારી પ્રજા થાકવા માંડી છે.લાકડાં, કાગળ અને લગભગ દરેક વસ્તુનો વિકલ્પ પ્લાસ્ટિક બનીરહે તેમ છે.



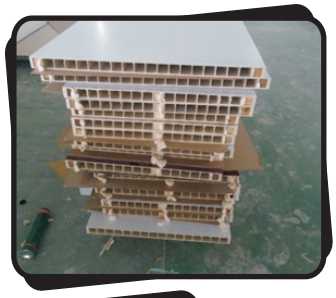
પ્લાય વુડ ચાર મીમી થી લઇ ને કોઇ પણ જાડાઇ માટે, ચાર અને છ ફૂટની પહોળાઇમાં સીધે સીધો અને સરળ વિકલ્પ છે, પીવીસી અને વૂડ પીવીસી બોર્ડ. માત્ર રુપિયા એક કરોડ ત્રીસ લાખ સુધીની મશીનરી થી કામ ચાલુ થાય.

લાકડાંની ચોખટ એટલેકે ફ્રેમ નો સીધો અને સસ્તો વિકલ્પ એટલે વૂડ પ્લાસ્ટિકની ફ્રેમ.ફક્ત પાંસઠ લાખની મશીનરી થી કામ ચાલુ થઇ જાય.



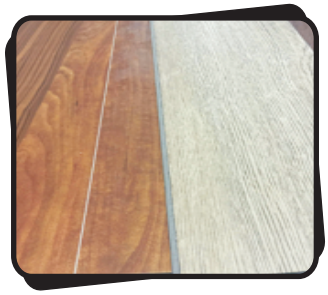
કાગળ અને લાકડાં વગેરેથી બનતું લેમીનેટ હવે પીવીસી માંબનાવો, માત્ર રુપિયા એક કરોડ અને સીતેર લાખથ કામશરુ થઇ શકે.

જે ધંધામાં ભીડ પ્રવેશી નાશ કે એવાંની શોધમા હોવ તો આની ઉપર નજર કરો. વૂડ-પ્લાસ્ટિક નાંદરવાજાં ફ્રેમ સાથે. મશીનરી માટે જાઇ શેરુપિયાસવા ચાર થી સવા પાંચ કરોડ.

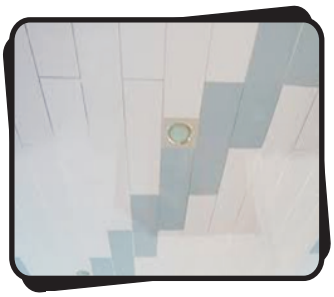
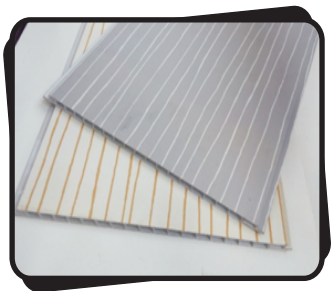


હોલો ટયૂબ્યુલર બોર્ડ જે લાકડાંનાં ફ્લશ ડોરનો વિકલ્પ છે.

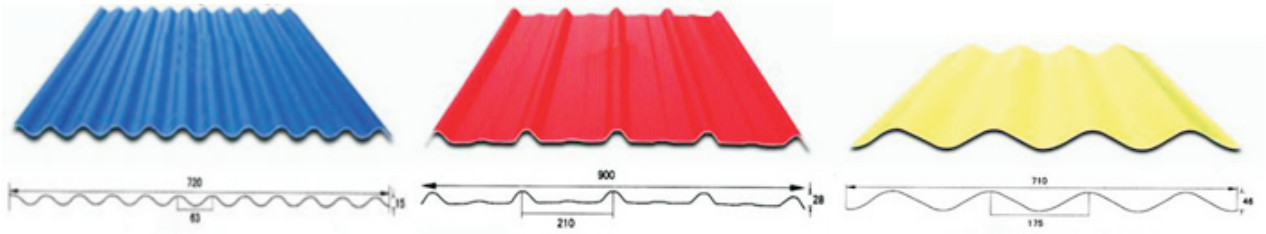
પોલિમર- પ્લાસ્ટિકની પેન્સિલ જે હવે લાકડાંની પેન્સિલનો વિકલ્પ છે. ખૂબ મોટું માર્કેટ છે આ પ્રોજેક્ટ ચાલુકરવા માટે મશીનરી જાઇશેરુપિયાએકકરોડ એંશીલાખ.



પીવીસીક્લીકલોક ફ્લોર જે લાકડાંનાફ્લોરીંગનોવિકલ્પ છે. આ મોટો પ્રોજેક્ટ છે,જેમાંમોરબી રાજકોટ ઇફેક્ટ-ભિડ અથવા ભેડ-ચાલ- થવાની શક્યતા ઓછી છે.

કોઇપણ જાતનાં ફોલ્સસીલીંગ અથવા વોલકવરીંગ નો સસ્તો વિકલ્પ એટલે પીવીસી પ્રોફાઇલ. નાનો પ્રોજેક્ટ. મોટુંમાર્જીન.

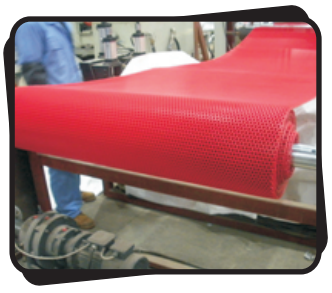
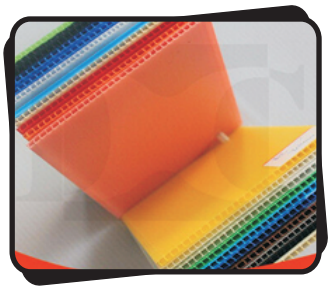
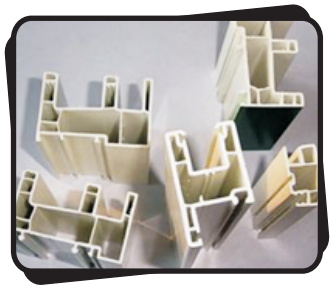


સીમેન્ટ અને લોખંડનાં છાપરાં નો વિકલ્પ એટલે, પીવીસી પ્લાસ્ટિકનાં પતરાં રુપિયા એક કરોડ સીતેર લાખની મશીનરી થી કામચાલુ થઇ શકે.

અનેખૂબ મોટી કમાણી માટેના ધંધાઃ પીવીસી ફ્લેક્સ બેનર બનાવો અથવા સેનીટરી નેપકીનબનાવો.


બીજાં અને કાનેક ઉધોગો થઇ શકે, જેમકે, પ્લાસ્ટિકનું ઘાસ, ઇન્જેક્શન સીરીંજ, પીવીસી મેટ, પીપીફોલોબોર્ડ, પીવીસી વિંડો પ્રોફાઇલ, શેડ નેટ,કોરુગેટેડ પાઇપ, પીપી અથવા પીઇ રોપ,




ઉપરોક્તકોઇ પણને ઉધઇ લાગેનહિઅનેપાણીઅસરકરીનાશકે.

All the figures are indicative and can change on the date of discussions.

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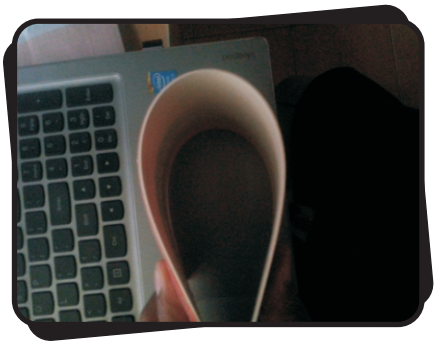
The Author, based at Ahmedabad,is a Professional consultant assisting to set up Lucrative/new projects.

BEST OPPORTUNITIES FOR THE NEW AND LUCRATIVE PROJECTS FOR INDIA.

PVC laminate பிவிசி உலோகத்தை , best Option to traditional Laminate or Mica

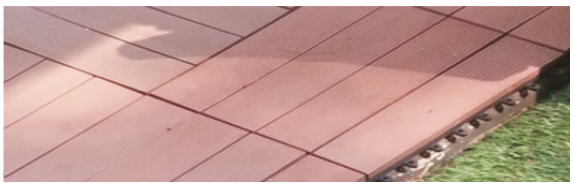


Cannot break, even of bent.
Much more market, all the Traditional laminate makers will go in for this.

PVC Foamed board, Wood **+ Plastic Board**
பிவிசி foamed கழு, மரப்பலகை + பிளாஸ்டிக் வாரியம் making
4mm to 22 mm (Replacement of Plywood board) and 25 mm to 35 mm (for door) HUGE Business.

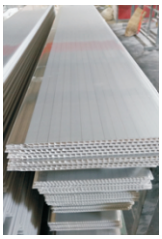
Wood + Plastic door-frame மரம் + பிளாஸ்டிக் டோர் பிரமே making
Smallest possible investment, best Business to replace wooden door frames

Marble/ Granite look-alike Plastic Board and profile making, மார்பிள் / கிரானைட் பார்க்க அதவும் பிளாஸ்டிக் வாரியம் மற்றும் சுயவிவர



Wood + Plastic Profiles making
மரம் + பிளாஸ்டிக் விவரக்குறிப்புகள்

uPVC roofing sheets
uPVC கூரைத்தகடுகள்,



Small investment Business.
PVC wall and ceiling profile making.
பிவிசி சுவர் மற்றும் கூரை சுயவிவர

High investment Volume business.

Sanitary Napkin சுகாதார நாடகைக்கும்
Making: The best possible business for the day.

FLEX banner making again is a big and huge business. Just 9 companies in INDIA So far and 20000 Tons per month is imported at Nahva sheva port. High Investment, Huge Quantity Business. AND MUCH MORE.

KAMAL SHAH **Ahmedabad** positive@positiveaggression.in mail@positiveaggression.in
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Cosmo Films upgrades its anti-fog film for wider application

COSMO FILMS
Engineered to Enhance

Mumbai, 9th May, 2017–Cosmo Films, a leading manufacturer of speciality BOPP films, has come up with an improvised anti-fog film with excellent cold & hot anti fog properties and high hot tack & low co-efficient of friction which can deliver high speed over wrapping performance. This means that the film would now be suitable for packaging of even unpolished fruits in trays on high speed HFFS machines.

Anti-fog films are generally transparent films which go in for fresh fruits/vegetables, salad packaging, meat packaging applications. The high moisture content in these food items lead to mist formationon the film surface thus affecting the visibility and therefore perceived freshness of the food packed inside. An anti-fogging film not only prevents this phenomenon leading to a better visibility of the contents inside but also renders the pack a better shelf appeal owing to its enhanced gloss/optics. The film complies with the EC and FDA food contact regulations.

The film is a co-extruded both sides heat sealable, both side treated BOPP film where printing is done generally on the top side and inner side lends in the anti-fogging characteristics. The film works well in a single layer as well as BOPP/AF BOPP laminate structure.

Commenting on the development, Mr. Shailesh Verma, Head-Packaging Films Exports, Cosmo Films said, *"The film has excellent machinability, high heat seal & high hot tack strength and low seal initiation temperature and therefore works very well on high speed packing machines. The film is available in 15 to 40 microns thickness. Company also makes film compatible for sealing on PE trays. A Keep Fresh grade providinglonger shelf life because of anti-bacterial properties is also available."*

About Cosmo Films Limited

Established in 1981, Cosmo Films Limited today is one of the global leaders and manufacturers of Bi-axially Oriented Polypropylene (BOPP) films used for packaging, labels and lamination applications. The company is the largest exporter of BOPP films from India and is also the largest producer of thermal lamination films in the world with plant cum distribution centres in India, Japan, Korea & the U.S along with global channel partners in more than fifty countries. For more information, visit www.cosmofilms.com or write to enquiry@cosmofilms.com.

For further information contact

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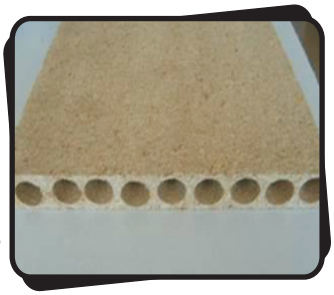
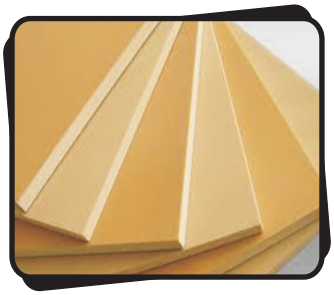
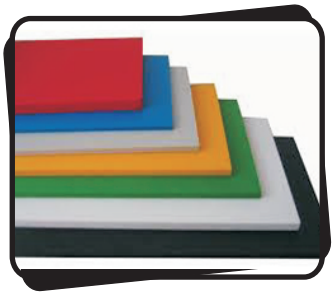
Flex Banner Making



Hollow Tubular board



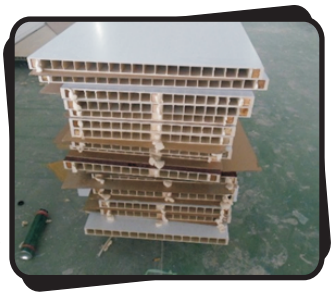
wood + Plastic Board



PVC Foamed Board

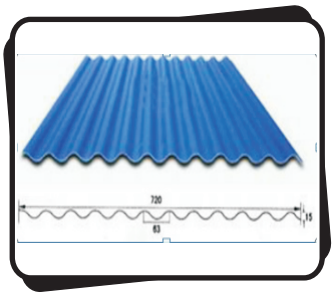
Polymer Pencil

XPS Board Wood



Plastic Doors Wood

Plastic Door & Frames



PVC Ceiling and wall profilesWood +Plastic shuttering ply-like board makinguPVC roofing sheets

Woven Sack Making Sanitary Napkin Making

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New Projects. மாதிய திட்டங்கள்

Wood + Plastic Door Frame Making વુડ + પ્લાસ્ટીક ડોર ફ્રેમ மரம் + பிளாஸ்டிக் கதவு மேக்கிங்

Basic Investment in the project	Rs.
LAND cost Approximate- Assumed	7000000
Building cost 5000 Sq. Feet	3000000
Machinery cost Landed in INDIA	6100000
Panel and cable	100000
Compressor	150000
Chiller	800000
Water tank and supply arrangement and air pipes and all electrification cost	200000
Consultant's cost	250000
Shipment cost	280000
Clearance at port cost and Transport till your factory	100000
Installation cost	100000

Total Initial Investment for the project	1,80,80,000/-

All the wooden frames are being converted in to Termite-proof, water-proof and maintenance-free Wood plastic door frames, needing no Color or varnish on it.

கரையான் அதை தொட மாட்டியாது. நீர் அதை கெடுக்க மாடியாது கலர் அல்லது வார்னிஷ் தவேை இல்லை दीमक इसे छू नहीं सकते, जलरोधक रंग या वार्नशि की जरूरत नही

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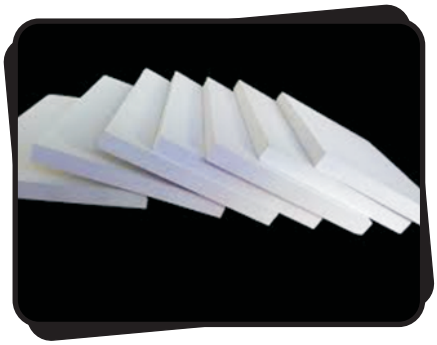
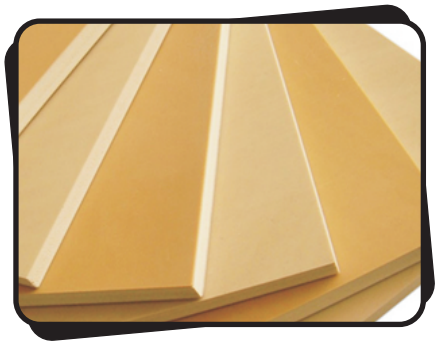
New Projects. : **Replace PLYWOOD Completely.**

PVC Foamed board and wood + Plastic boards. Thickness: 4 mm to 22 mm and also 25 mm to 35 mm (For directly door making) Width: 4 feet, 6 feet also can be made.
One layer to three layered. All sorts of Lamination possible on it.





PVC Foamed Boards Wood + Plastic Boards

Project Cost.

PVC and Wood + Plastic Board making business 4 to 22 mm thick.	**4 feet wide Single layer**	**4 feet wide with co extruder for three layered board making**
Capacity	300 Kg Per Hour	350 Kg per hour
Machinery with 375 HP Connected load	14500000	17560290
Utilities EB Cost Deposit + Panel + Cables + etcetera	2500000	3000000
2 acre Land + Building 7000 Square Feet	11000000	11000000
Consultant's cost	500000	500000
Total Initial Project Cost	28500000	32060290

Huge ready Business, just go to the market and replace plywood.
Made much cheaper and huge margins exist. **People made and sold Shauchalayas to state Governments and made millions.**

Furniture, kitchen cabinets, lofts, cupboards, partitions, shutters, cubical.....

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New Projects. PVC laminate making. Replacement of Traditional plywood.
Cannot break upon bending many times.

Termite-proof, water-proof, maintenance free, almost normal-scratch proof, longest possible life.

Estimated Project costs	
Machinery +UV plant cost	17417850
Land 2 acres	7000000
Building 7000 Square foot	3500000
EB cost and all Utilities	3500000
Installation and commissioning	300000
Consultant's cost	500000
Total initial investment	32217850

This plant can also make marble look-alike boards in thickness 2.5 mm to 8 mm;
which is upcoming market product for INDIA to replace Marble and Granite for walls.

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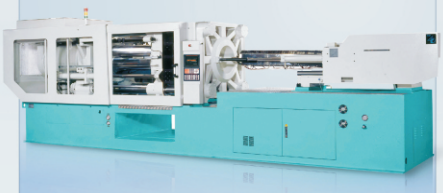
CNC Milling Controller

M6X8 Series
10.4" Display
Maximum 6 Axis

M5X8 Series
8.4" Display
Maximum 6 Axis

Controller For Injection Machine

Can Support Servo Valves with Closed Loop PID Control for MOOG, BOSCH, VICKERS etc.
All Electric Machines.



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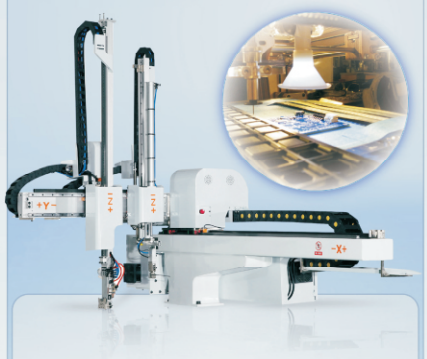
A Perfect Budget

IN6800
For Std Injection
Molding Machines

Controllers For Servo Robots



R6000
For Servo Robots
8.4" Display
Waterproof &
DustProof

R6800
For 6 Axis Servo
Robots.
7" Display

CNC Lathe Controller

T5X8 Series
8.4" Display
Max 6 Axis

Controller for All Electric IMM

IN7800 Series
Controller for All Electric Injection Molding

ES200-Energy Saving Servo Packs

ES200 Energy Saving Servo Pump Packs use PM Servo Motors with Internal Gear Pumps & are controlled with Servo Drives in closed loop control system to achieve energy savings of 40% ~ 70% in Injection & Blow Molding Machines.
Different Customized combinations are available from 20lpm to 300lpm depending upon the machine.

We also offer complete retrofitment solutions for any brand of machines.

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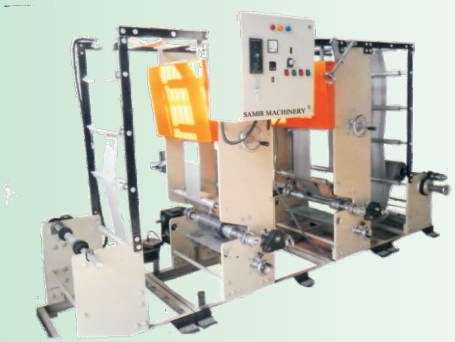
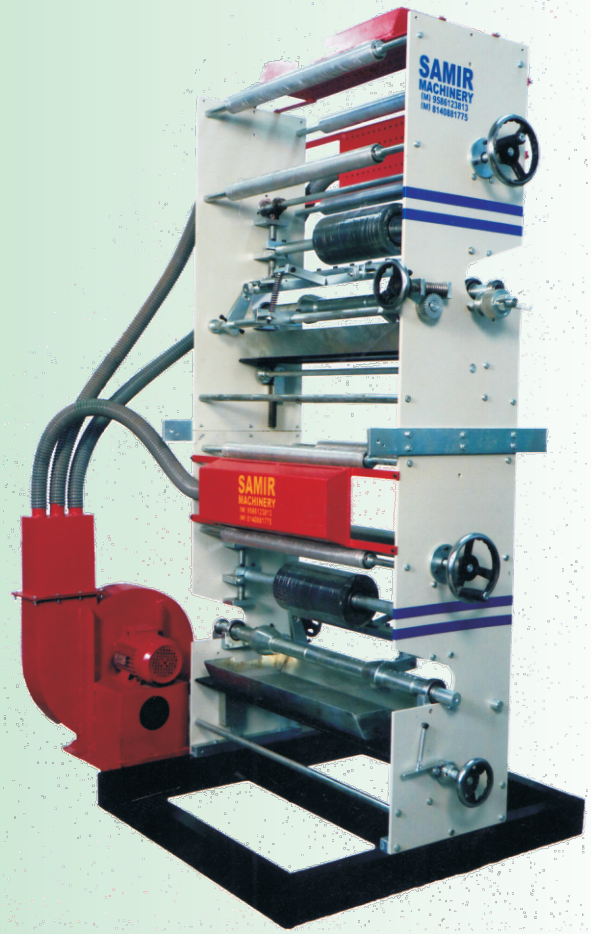


2 colour Rotogravure

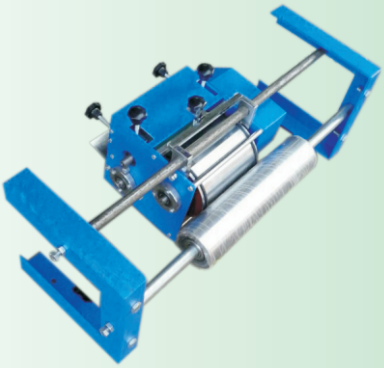
6 colour Flexo Machine

2 colour Flexo Machine

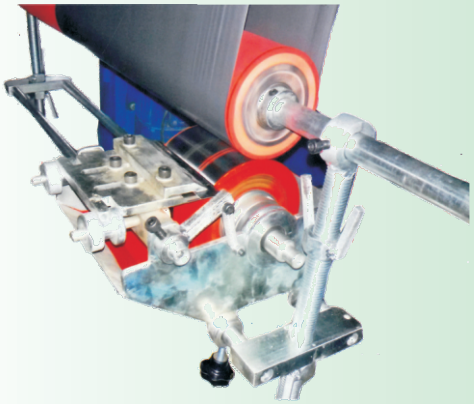


Online Two Colour Roto Machine

Single colour
Rotogravure Machine



Online Single
colour Flexo



Single colour Online Mini Rotogravure

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- Replacing Wood entirely, avoiding issues of smell, termite, maintenance.
- Plastic (PVC) and Calcium Carbonate ($CaCO_3$) have proved great blessing.
- Is usually made be the following dimensions

Length	950, 1220, 1850 mm
Width	125-200 mm
Thickness	4-10 mm

- The production process is simplified as the extrusion of PVC+$CaCO_3$ with additives, makes the base upon which PVC film and wear layers are laminated, then UV Coated and then slit in to needed sizes and them Milled for the edges to make them coupled in to each other while laying.

- Made from PVC and $CaCO_3$ in the ratio of 1:3 which is too good for the cost of production and also strength and durability of the product.
- With the plant and machinery cost of about Rs 6.2 Cr. Landed and total approximate project cost of about Rs. 9.3 Cr can start this business.
- Depending upon the realization, the annual profit can be Rs 4.01 Cr to 8.2 Cr! And so this business is one of the best these days within medium investment range.
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- High class product to be made at minimum costs of raw material.
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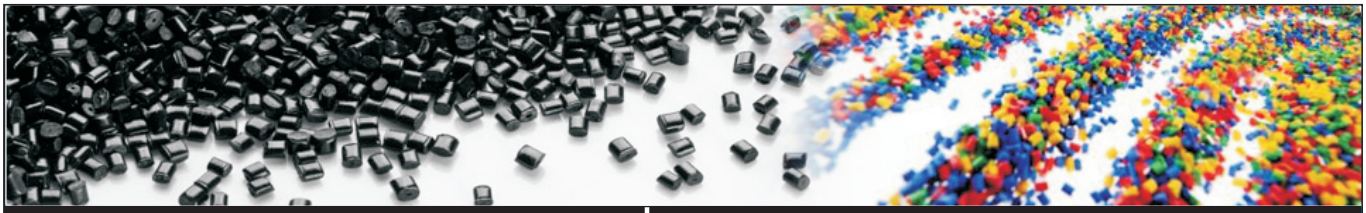

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