

SPOKESPERSON AND GATEWAY TO PAKISTAN'S PACKAGING INDUSTRY

# PACKAGING PAKISTAN

Volume 3, Issue 4, January - December 2018

FLEXIBLE

CORRUGATED / CARTON

PLASTICS

PAPER & BOARD

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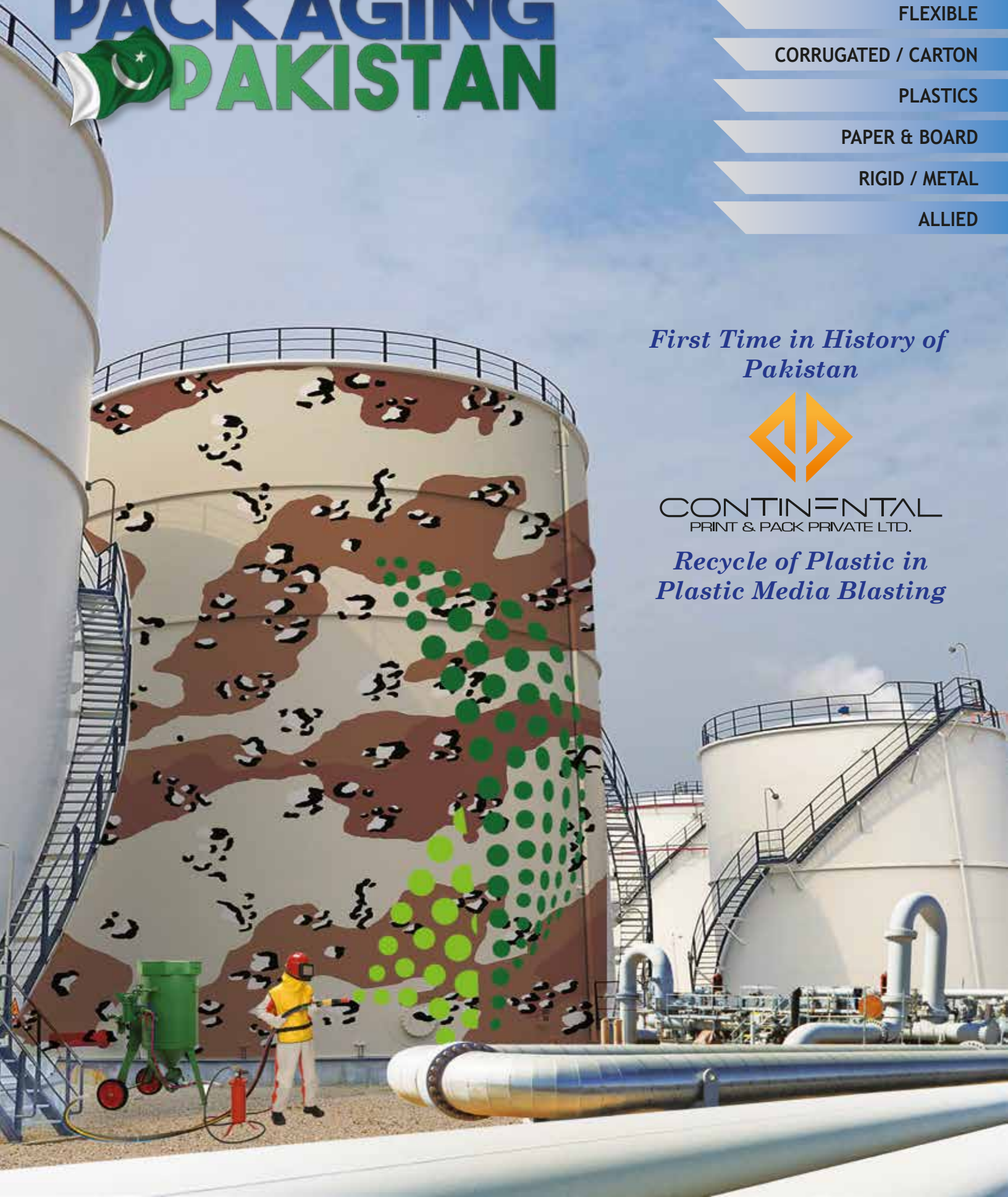
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*First Time in History of  
Pakistan*



**CONTINENTAL**  
PRINT & PACK PRIVATE LTD.

*Recycle of Plastic in  
Plastic Media Blasting*





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## *Editorial Note*

FLEXPACK pleased to present the new edition of Packaging Pakistan. we inform our valuable readers that due to current economic scene this issue is combined for 2018.

We talk about "plastic" as though it's a single material, but there are in fact many different plastics. What they have in common is that they're plastic, which means they are soft and easy to turn into many different forms during manufacture. Plastics are (mostly) synthetic (human-made) materials, made from polymers, which are long molecules built around chains of carbon atoms, typically with hydrogen, oxygen, sulfur, and nitrogen filling in the spaces. You can think of a polymer as a big molecule made by repeating a small bit called a monomer over and over again; "poly" means many, so "polymer" is simply short for "many monomers."

The goal of recycling plastic is to reduce high rates of plastic pollution while putting less pressure on virgin materials to produce brand new plastic products. This approach helps to conserve energy and diverts plastics from landfills or unintended destinations such as oceans. Plastics' recycling has a long and interesting history. Consumers now can find a wide range of products made with recycled plastics, from different household products, which gives new life to these valuable materials by closing the recycling loop.

However, in this present publication, you'll find newly experiment "Recycle of Plastic in Plastic Media Blasting" and first time in history of Pakistan Messrs Continental Print & Pack Pvt. Ltd, a flexible Packaging company has done this excellent effort at one of the largest oil field zone in Karachi, Pakistan. As short intro, Plastic Media Blasting (PMB) is a dry abrasive blasting process designed to replace chemical paint stripping operations and conventional sand blasting. Chemical paint stripping is primarily used on aircraft by applying chemical gels to the painted surfaces or by dipping the component into oil tanks of un-fuelled stripper. The paint and solvent mixture are scraped and washed off with water. The process generates large quantities of paint/solvent sludge which may contain chromium, other toxic metals, and toxic organic substances from the stripping solvents. Conventional industrial sand blasting uses silica sand suspended in a high pressure air stream to remove paint from surfaces. Fugitive dust composed of both paint and sand particles is created and requires management during the abrasive process. The used silica sand is not typically recycled; the waste stream mixture of sand and paint chips is disposed off as hazardous waste depending on the paint constituents.

This technology has already been used in developed countries in various sectors such as oil refinery tanks, automotive, ship, airplane and allied industries by plastic recycling.

Inside the magazine, we are also highlighting new developments in plastic and packaging sectors like latest mixture of technology news from packaging, information's, different articles and so on. While we would like to have our readers continuous support, we always look forward for new ideas, suggestions from our readers as it greatly helps to serve and decimate knowledge to industry. We strongly believe that it is our collective responsibility to devote our efforts in sharing best possible information.

Happy Reading!

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Shoaib Ahmed Bilal

## Recycle of Plastic in Plastic Media Blasting

CONTINENTAL  
PRINT & PACK PRIVATE LTD.

By:

Shoaib Ahmed Bilal

&amp;

Muhammad Furqan

(Consultant Corrosion, Protective &amp; Marine Coatings)

FLEX PAC  
FLEXIBLE PACKAGING

Muhammad Furqan

We publish latest plastics industry articles in our articles section. Our plastics industry articles will be relevant to current and potential clients and they help to enhance, transform the business of Quality Plastic Three of the most common single-use products that use in Pakistan industry on a daily basis are:

Plastic bags, plastic bottles and plastic food packaging. For the sake of reducing the scope of the research, the focus is set on plastic bags, bottles & many more products of plastics.

Plastic Media Blasting (PMB) is a process for the rapid, economic and safe stripping off flash rust, paint & coatings from almost any surface without the use of toxic chemical strippers, sandblasting, or hand or mechanical abrasion methods.

The process is similar in principle to sandblasting. However, instead of using hard silica sand and other blasting abrasives much softer reusable plastic abrasive are used at low blasting pressures of 20-50 psi. At these



pressures, the plastic media blasting without causing damage to the underlying substrates including ferrous, non-ferrous light material substrates.

### Types of media:

The plastic media is available in 5 different types and many granulometry to meet the requirements of specific finishes on substrates. The individual plastic

particles are irregular in configuration with granular surfaces that incorporate sharp, angular edges. During use, an effective cutting, shearing and lifting action results.

It is used in a wide range of industries around the world for many different purposes, including cleaning surfaces such as ferrous, non-ferrous, bricks, concrete etc. The most common method uses compressed air to propel abrasive material from a blast pot, through a blasting hose to a nozzle that is manually controlled by the operator. Automated abrasive blasting machines such as centrifugal wheel systems and tumblers are also used. Blasting is generally performed in enclosed environments like blasting chambers or cabinets, or on open sites, for example on Industrial utilities, marine sector, buildings, bridges and mobile Units etc.

"One of the most ubiquitous and long-lasting recent changes to the surface of planet is the accumulation and fragmentation of plastics," Starting from health problems from BPA (BisPhenol) and phthalates leeching in to water and drinks, to the great plastic patch in the oceans, the impact of plastics on the environment is profound. The present paper made an attempt to analyze the problems concern to plastics and its effects on land, water, terrestrial, aquatic animals and humans. Main focus in this article is how the ecosystem as a whole is affecting by indiscriminate use of plastics and the health problems cause by plastics to the

human beings and also emphasized the reuse of



plastic by following various management practices. The Surface preparation is the essential first stage treatment of a substrate before the application of paint & coating. The performance of a coating is significantly influenced by its ability to adhere properly to the substrate material. It is generally well established that correct surface preparation is the most important factor affecting the total success of surface treatment. The presence of even small amounts of surface contaminants, oil, grease, oxides etc. can physically impair and reduce film adhesion to the substrate.

### Muhammad Furqan(Consultant Corrosion, Protective & Marine Coatings):

Since 30th years working & connected with the Protective & Marine Sector coating industry in Pakistan and all over the World, certified from DGA/DCN France, Middle East and familiar with international Standards i.e. ISO, NACE, ASTM, API, SSPC and NORSOK.

In his experience and research introduce two types of abrasive in PAKISTAN to improve the quality and enhance the Project design life span and product life basic part of surface preparation which is extend when we worked under the controlled environmental design in Pakistan.

Introduce T8 Bulk Blasting Machine since 1995 a new 1st Invention in Pakistan. The capacity of T8 Bulk blasting machine was contained approx 8tons abrasive. 2nd Invention of Rugos 2000 & Corundum abrasives All Activities was completed and implemented as per international Specification and coating plans, on Fiber Boats, Submarines and War Ship at DGA/DCN (France) and Pakistan. Alhamdulillah All the System are still in Running and operating Condition.

Now in August, 2018 new 3rd invention after a Long Research and development, develop and implement a new Era invention (PMB) with support of well known Packaging and Printing industry Continental Print and Pack and AKS Engineering fully equipped in Blasting/ and Coating application in Pakistan. Shoaib Ahmad Bilal Continental Print and Pack introduce Nano Technology in different industry (Personal Care and Cosmetics, Paint, Printing ink, packaging etc.) and Bawer Twafik Technical Adviser (Pakistan int. Bulk Terminal), introduce and implement Plastic abrasive media (PBM) in OIL And Gas field Pakistan.

For the invention we Keep in Mind of Recycle Pollution and dust free environment as well as the human health

decreases by the Hazardous Material. The particle size of the abrasive is also an important factor in affecting the rate and efficiency of cleaning & stripping. In general terms, fine grades are efficient in cleaning relatively coarse grade plastic abrasive may be required for stripping off rust, lose paint and coatings.

### Conclusion:

After Completion Plastic Abrasive blasting for stripping off Flash Rust, Paint and Coatings etc. on assorted Surfaces.

Collections of plastic abrasive MEGMA Then revert to Reproducing plant for develop a new plastic abrasive and others.

Reproducing plastic abrasive packed in small Bags, Drums and Jumbo Bags.

When the project is designed and system for the new and existing projects. Where the MIL spec and confined Space (Storage Oil and Gas Tanks).



### SILICA SAND

To prevent silicosis, many European countries banned silica sandblasting - some as early as 1947. Industrial professionals in those locations began searching for replacement abrasives for their blasting machines. They experimented and began using products like garnet, coal and other slag's (hazardous by products of various smelting processes), steel grit, and steel shot. Despite this transition from sand to alternative abrasives, many kept using the term "sandblasting" to describe the similar process of "abrasive blasting".

### Kind of Surface Preparation Abrasive use in Pakistan Industries:

Existing abrasives media for the Striping off flash rust, Paint, & coating as per surface preparation Standard ISO 8501-1 (2007). Existing abrasive use in Pakistan: Silica Sand, River Sand, Copper slag, Black Crush Stone, Corundum, Rugos 2000, Garnet, Steel Grit, Glass Beads, Cast Iron Shot.

**Now ADD New Innovation in the history of Pakistan**

The Plastic should be classified by Type grade and colour as follows

**Types:**

Polyester, Urea Formaldehyde, Melamine Formaldehyde, Phenol Formaldehyde, Acrylic

**Grades:**

Grade A: Manufactured from Virgin Plastic.

Grade B: Manufacture by scrape Plastic.

S.No.	Type	Color	Barcol Hardness	Moh Hardness
1	Type 1	Light Blue	34 to 42	3
2	Type 2	Light Yellow	56 to 62	3.5
3	Type 3	Light Pink	64 to 72	4.4
4	Type 4	Dark Brown	54 to 62	3.5
5	Type 5	Light Grey	46 to 54	3.5
6	Type B	Multicoloured		

**Performance:**

Nozzle Distance from substrate 10 inches, Nozzle Angle 80 deg, Nozzle Size Pin 245840 or equivalent.

Three of the most common Single use products that we use on a daily basis are: Plastic Bags, Plastic Bottles and Plastic Food Packaging. For the Sake of reducing the scope of the research, the focus is set on plastic bags and bottles.

Plastic Media Blasting is proving to be a cost effective method of Paint, Coating and flush rust stripping with many benefits.

Plastic Media Blasting (PMB) stripping off techniques e.g. flash rust, Paint & Coatings in which small granular amino thermosets etc. are forced at high velocity through a compress air pressure nozzle on ferrous non ferrous and light material Surfaces.

The Plastic beads have rough edges which serve as an abrasive a shatter and dislodge surface coating of Paint and grit?

The Process is similar conventional sand blasting. However the Plastic media is less aggressive than sand and other abrasives and therefore will not damage delicate substrate.

**Data Categories:**

Chemical Stripping, Facility and equipment, Economics, Safety and Health, Surface Effects.

**Chemical Stripping:**

Stripper Cost, Man Power Used, Disposal Cost, Waste generation and treatment plant cost.

**Facilities for Blasting:**

A source of dry compressed air, Blast Machine, Abrasive recovery System, Dust handling equipment.

**Plastic Media Applications****Cleaning:**

Oil & gas pipelines and storage tanks, Paint Removals, Air craft's landing gears, Pistons, Propellers blades, Air craft fuse blades, Truck Wheels, Boat Hulls, Boat Bridges, Heat exchangers, Armature Wires, Engine Parts

**De-flashing:**

Electronic component, Lead Frames, Plastic Modding

So while Abrasive Blasting is the correct term - Sandblasting is often used mistakenly.

Both sandblasting and abrasive blasting are used in today's industrial vernacular. The terms mean generally the same thing: the removal of the top film layer of a substrate contaminant, or rust through airborne abrasives. The biggest differences between sandblasting and abrasive blasting are the media used.

Since most modern abrasive blasting companies use alternative (non-sand) abrasives to clean and achieved good profile substrates, abrasive blasting is the most accurate term. Sand is mostly still used as a blasting media, but it's rare due to the well documented health hazards silica (found in sand) presents when it is used as a blast medium. In the rare case that a blaster is using sand, both abrasive blasting and sand blasting would accurately describe the work being done. Otherwise, when materials like Sponge Media, garnet, or coal slag is being used, abrasive blasting is the correct term.

*Note: Plastic abrasive and other blasting abrasives are much better then Silica Sand.*

# Best Service For Best Clients



Our flexible printing unit supports your Global Brand Equity through our state-of-the-art facilities. Our rotogravure printing machine has ability to print 7 colors and lamination production line with the most advanced technology.

We are capable of supplying various kinds of products in pouch or roll form to suit the individual needs and demands of our customers. Our company is devoting to flexible packaging such for food, beverage, snacks, detergents and daily-use products, different material structures for different packing purpose.

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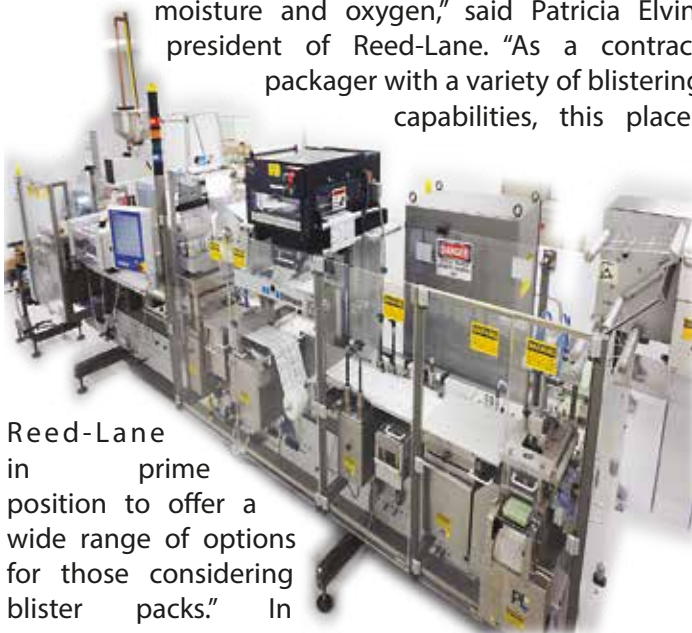
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## Contract Packager Reed-Lane Sees Increased Interest In Blister Packaging Operations

**Reed-Lane, a New Jersey-based contract packaging provider serving leading pharmaceutical manufacturers, has experienced an uptick in interest in its blister packaging services. The spike in inquiries has followed the company's double-digit blister packaging capacity growth, spurred by its recent purchase of an additional UPS 4 Blister Machine from Uhlmann Packaging Systems.**

In addition to its two UPS 4 Blister Machines, Reed-Lane's blistering operations are anchored by units from Klöckner and CAM. Combined, the equipment enables precise, high-speed filling with in-line printing and inspection for both prescription and over-the-counter products. This machinery diversity also makes Reed-Lane flexible and nimble, allowing the contract packager to either work within existing package platforms or collaborate with customers and suppliers to design custom, product-specific tooling or packaging features.

According to the news "Blister packaging seems to be growing in popularity as many pharma manufacturers look for solutions with heightened protection against moisture and oxygen," said Patricia Elvin, president of Reed-Lane. "As a contract packager with a variety of blistering capabilities, this places



Reed-Lane in prime position to offer a wide range of options for those considering blister packs." In addition to blister packaging, Reed-Lane has three other specialties: bottling, pouching, and convenience vial filling. The CPO also has extensive secondary capabilities in labeling, cartooning and card sealing.

## Point Five Packaging Introduces P5-RM Semi-Automatic Tray Seal System for Food Packaging

Point Five Packaging, a supplier of modified atmosphere packaging (MAP) equipment and premium packaging solutions for various food industry sectors, has introduced the P5-RM Semi-Automatic Seal System. Ideal for any food production or packaging environment, the machine is easily configurable for sealing trays or cups using Modified Atmosphere packaging (MAP), vacuum skin packaging (VSP), or seal-only packaging.

The manual, easy-to-operate rotary table considerably cuts cycle times and optimizes output as it enables sealing, loading and unloading to occur simultaneously. The operator loads pre-filled containers into the machine and manually rotates the table under the seal head; while the seal head engages to seal, MAP or VSP the containers, the operator readies the second nest plate with product. Upon completion of the seal cycle, the operator rotates the table again and repeats the cycle. The P5-RM can be combined with system conveyors, fillers and depositors to create a super-efficient automation cell.

The P5-RM can produce up to 28 sealed containers, 20 MAP trays and 16 VSP trays per minute. Seal head can be changeover performed in under five minutes, and a user-friendly PLC color touchscreen interface allows quick, simple product setup, storage of up to 99 unique recipes, and multiple language selection. The machine handles film widths up to 14.5-inch (370mm) and tray depths up to 5.5-inch (140mm). Film sealing, MAP and vacuum skin packing can all be achieved on the same seal head.



The machine offers a variety of competitive advantages. Its heavy-duty 304 stainless steel wash-down construction is ideal for food packing

environments, and its tool-less vacuum chamber removal further ensures high standards of hygiene and cleanliness. Film rack loading is simple and includes automatic scrap take-up; optional print registration affords precision quality control. Value-added options range from a selection of alternative vacuum pump sizes to a seal head storage cart with an efficiency-minded preheating feature.

## Tetra Pak Launches New Packaging Material Effects To Help Brands Attract Shoppers' Attention

Tetra Pak has launched a suite of new packaging material effects, known as Tetra Pak Artistry, to help food and beverage producers revitalize the look and feel of their products. These effects help brands attract shoppers' attention without the need for the manufacturer to switch to a new packaging format or invest in new equipment.



According to Charles Brand, Executive VP, Product Management and Commercial Operations at Tetra Pak said, "In a world where almost everything needs to be 'personal sable', we want to provide customers with something unique to help their brands rise above the noise and reach the shopper. The new suite of effects and expressions will help our customers enhance their brand at no additional investment, making it a cost-effective solution to their needs."

- Tetra Pak Artistry will include: Tetra Pak Reflect: to incorporate holographic effects onto the package
- Tetra Pak Metallized: to create a metallic effect
- Tetra Pak Craft: to give the package the natural look of bare paperboard with wood fibers

More offerings are in the pipeline, including Tetra Pak Sculpt, an embossed surface texture for an innovative consumer experience.

The whole range of effects will be available for the majority of Tetra Pak package formats and offered to customers worldwide.

## BOBST To Inaugurate New Production Site And Competence Center In Changzhou, China, With Grand Open House Event

According to the news BOBST has announced the official opening of BOBST Changzhou Co. Ltd, BOBST's second production facility in China. Titled "China 4.0 - Beyond your packaging future" the formal inauguration will be followed by two days of Open House events on 17 and 18 May.



The new site is a state-of-the-art Greenfield facility located in Changzhou, in the Jiangsu province of China, and is dedicated to web-fed printing and converting technologies for flexible materials. The opening of the new plant is a major step in the next phase of the development of BOBST activities for the Asian flexible packaging industry. It also bears witness to the Group's enduring commitment to the highest BOBST manufacturing standards in its delocalized production plants and to the development of gravure printing and lamination solutions dedicated to the region's specific requirements and industry practices, while continuing to consolidate its leadership in Asia.

The Center will provide full support and advice to Asian clients throughout gravure printing and

lamination trial runs, in addition to being the location for the joint development of process improvements with other suppliers of equipment, devices and consumables, and of course for R&D and testing BOBST own equipment. "Leading companies choose leading technology and converting companies that choose BOBST will gain an advantage on competition because our leading technology is developed exploiting not only the advantages of our Group's global synergies but also in cooperation with local competences.

## Sun Chemical Forges Distribution Partnership With Cyngient

Sun Chemical has named Cyngient as a strategic distribution partner of its inks, coatings, and other solutions for offset, narrow web tag and label (NWTL), commercial sheeted and folding carton printers.

According to the news The new partnership allows Sun Chemical and Cyngient to reach their North American inks customers faster and more efficiently and jointly provide customers with technical and product support. Cyngient customers will now have access to Sun Chemical's full range of solutions for the marketplace which can be combined with many of Cyngient's specialties, including special effects, soft touch and tactile coatings, cold foil solutions, and in-mold products.



"Cyngient is much more than a distributor; they are a partner that develops relationships, provides technical service, does their own lab work and will serve as an extension of our technological capabilities," said Dennis Sweet, Vice President - Commercial, Rycline and Distributors, North American Inks. "Combining Sun Chemical's technology and capabilities with Cyngient's service to customers brings together the best of both worlds."

"Sun Chemical is a global leader with the world's largest research and development center dedicated to printing ink technology," said Andrew Wasserman, Managing Partner, Cyngient. "We are excited at Cyngient to be a partner with Sun Chemical. We believe with this combined partnership, Cyngient can deliver leading edge ink technology, enhanced on-site training, along with delivering the highest level of service. This is truly a game changer for Cyngient and our customers."

## Clifton Packaging Invests In New Koenig & Bauer Flexo Printing Press

*"Service, quality and further technological advances convinced us once again that we can continue to grow with Koenig & Bauer technology."*

Clifton Packaging Group has invested in a new flexo printing press from Koenig & Bauer's subsidiary KBA-Flexotecnica. The new Evo XD press represents Clifton's third investment in KBA-Flexotecnica flexo printing press and builds on the partnership between the two companies. Clifton Packaging Group Managing Director Shahid Sheikh OBE said: "Service, quality and further technological advances convinced us once again that we can continue to grow with Koenig & Bauer technology.



"With the high level of performance seen so far and based on a close working partnership forged over many years, Clifton Packaging were happy to once again work with KBA Flexotecnica. "Furthermore, Clifton Packaging see the synergies that the wider Koenig & Bauer Group can offer to flexible packaging markets, and we look forward to seeing new developments and new solutions from Koenig & Bauer."

According to the news the company will use the new press, which was fired up in Leicester, England earlier this year, to print flexible packaging. The Evo XD press features eight printing units, a new dryer generation and drives and control technology. With a web width of 1,320mm and a cut-off of 370 to 1,000mm, the press is designed to meet high-quality requirements on a wide range of substrates. Additionally, the flexo press comprises an energy-saving ventilation system in the bridge dryer and the fully automatic AIF impression setting system, which eliminates the need for ink during the adjustment process. Koenig & Bauer noted that the press can run at speeds of up to 500m per minute depending on substrate.

## Nestlé Waters To Invest \$24m In Swiss Bottling Site

Nestlé Group's bottled water division Nestlé Waters has announced plans to invest \$24m into the modernization of its bottling site in Henniez, Switzerland. As part of the move, the company will install a new production line that will replace two existing mineral water glass bottling lines. The investment will also see the introduction of a space dedicated to the production of fruit juice and flavored water, which will reportedly help meet changing consumer demands.

According to Nestlé, the extra line will increase production efficiency at the site, with plans to build a second production site in Henniez also on the company's agenda. This site would be incorporated into the main facility as part of the upgrade in 2019.



The move comes as part of Nestlé's wider H2O Horizon 2020 program, which focuses on creating flexible and competitive production solutions in a bid to meet consumer expectations.

Nestlé Waters Switzerland General Director Alessandro Rigoni said: "Thanks to this investment, we reinforce the Henniez production site and equip it for the future development of our strong brands. "We have established an exemplary partnership with the most important actors of the region, notably with the ECO-Broye environmental project, which protects Henniez' water resources. And we will continue on this path in the future."

Nestlé recently joined a host of packaging manufacturers and industry leaders in declaring war on plastic, which is increasingly threatening the survival of marine life and the environment. Within this framework, the company pledged to switch to 100% reusable or recyclable packaging by 2025.

The project will see Nestlé increase its focus on core areas such as eliminating non-recyclable plastics, promoting the use of plastics, therefore improving recycling rates, and finding sustainable materials. As part of the plan, the firm's North America division recently announced its Sacramento facility will be powered by 100% renewable energy.

## Kite Packaging Expands Portfolio With New Carton-Sealing Machines

UK-based Kite Packaging has launched new carton-sealing machines to enable the company to expand its product range. The company designed the new machines to automate the pick, pack and dispatch process, allowing businesses to increase operational speed.



The latest additions to Kite Packaging's product portfolio include four diverse carton sealers, namely the Robotape 50 TBDE, the Robotape 50 ME, the Robotape 50 TBDA and the Robotape 50 CF. In a statement, Kite Packaging said: "These machines are the perfect addition to busy packing areas in a world where automation is becoming a key factor alongside the growth of e-commerce. "These latest additions to Kite's vast product range are sure to set the bar high in warehouse operations due to their highly advantageous features and cutting-edge design." The machines are programmed to seal the top and bottom of boxes, ensuring the safety of their contents. The Robotape 50 TBDE model contains motorized top and bottom-gripping belt conveyors that ensure a constant mesh is present on the products.

According to the company, the model offers the ability to adjust its working width by self-centering side guide units, thereby sealing a wide range of fixed carton sizes. The Robotape 50 ME model features a lateral side motorised driving belt conveyor, which enables fast and efficient taping in the warehouse through its sophisticated design. The Robotape 50 TBDA automated machine is equipped with a sophisticated self-sizing tool that automatically adjusts to the current box size. It also offers the ability to seal different box sizes swiftly and efficiently. The machine eliminates the need for measuring box dimensions.

Meanwhile, the Robotape 50 CF intricate machine contains an automatic top flaps folding device. The machine also features side belts that are suitable for uniform size boxes. Kite Packaging also supplies machine packaging tape, which is specifically designed for use with a carton sealing machine. Manufactured with a strong hot melt adhesive, the tape conforms to all types of paper and cardboard.

## Bosch Launches New Processing System To Produce Injection Solutions

German multinational engineering and electronics company Bosch has presented a new flexible processing system that boosts production of injection solutions at Achema 2018. Called SVP250 LF, the system is characterized by its modular design and its

conical vessel shape, which helps minimize product loss. It also has a digital connection feature with ALF 5000 filling and closing machines for vials and ampoules that enables rapid processing. Bosch subsidiary Pharmatec Sales Director Dr. John Medina said: "Depending on customer



preferences, the design allows the system to be expanded with additional process vessels and modules to be flexibly exchanged."

According to the company, data from the processing and filling machines is integrated into a single system and visually displayed in an Industry 4.0 application. The system includes both a preparation and storage vessels particularly used for injection solutions with small batches ranging from 15l to 250l. Medina said: "The vessel's conical shape minimizes product loss during the emptying process. Given the costly materials the system handles, that translates into a concrete financial benefit."

Processing modules can be easily and flexibly installed or exchanged thanks to the product's pre-configured architecture. Medina further added: "Production on the processing system is already digitally controlled, as a higher-level control system communicates with the preparation system and monitors the entire process. "The processing and filling machines exchange information through their HMIs, allowing them to coordinate each batch." The system can also record, store and visualize data on the machine status or process parameters from both systems, therefore offering improved transparency in production and shorter response times. Bosch said that the processing system will help achieve optimal production planning through a connection between preparation systems and filling machine.

## INSIDE THE PACKAGING MACHINERY MARKET

Demands for food and beverage products are growing rapidly around the world and with consumer focus on shelf-life and hygiene, advances in packaging machinery can make companies more competitive and increase values of end product. By Vera Fritsch, head of packaging machinery, VDMA food processing and packaging machinery

The world population is growing. At the same time, the economies particularly in the emerging markets are developing very rapidly. Incomes are increasing and as a result so does consumer spending since there is a huge pent-up demand. The global food and beverage industry is a highly dynamic growth market, and the global spending on food and beverages will continue to rise. In 2014, around €2,632 billion (US\$2.89 billion) were spent for packaged food and beverages.

The British market research institute Euro monitor assumes that by 2019 the expenditure will have risen by 23 percent up to €3,340 billion. Rising global demand for food and drinks, and also for pharmaceutical and cosmetic products, requires more products to be produced. This will result in growing investments in machinery and equipment.

The global demand for packaging machinery continues unabated. In 2013, world trade reached €18 billion, a new record and an increase of five percent compared to 2012. Hardly any other segment of mechanical engineering can look back on a similarly dynamic development. For many years, Germany has been the largest exporting nation of



packaging machinery with a global market share of 29 percent in 2013. Italy follows with a market share of 28 percent. These figures are followed at some considerable distance by China (five percent), the US (four percent) and France (four percent).

### Rising Global Demand

In 2014, 757 million tons of packaged foods were sold worldwide. In 2019, that will rise to 854 million tons an increase of 13 percent. The biggest growth markets for packaged foods are in Asia, the Middle East/Africa and Latin America. These three regions together make up 55 percent of the entire trade volume. The global demand for beverages shows a roughly similar picture as that of packaged foods. In 2014, the sale of beverages stood at 911 billion liters. This is estimated to rise to 1,079 billion liters by 2019, an increase of 18 percent.

In the beverage sector, too, the biggest growth markets already lie in Asia, Latin America and the Middle East/Africa. In the coming years, the demand in Asia, the Middle East/Africa and Latin America will develop at a disproportionately higher rate compared to the world market. This growing global demand for food and beverages makes it necessary to increase production. The investment in machinery and equipment will grow accordingly. The food and beverage industry is one of the largest groups of buyers of packaging machinery. Around 60 percent of all produced packaging machines go into this industry.

### Global Mega Trends

Resource efficiency is a topic that has been moving the industry for some time and will continue to do so. This is not just about the use of some energy efficient components, but rather achieving a high



yield of good products because every subsequent step in a production line increases the value of manufactured goods. In other words, the largest share of energy is attributed to the product itself, followed by the packaging material. Here, packaging machinery manufacturers can contribute as well. One example is ultrasonic sealing.

### Ultrasonic Sealing

The sealing processes very much decide the quality and tightness of tubular bags and therefore, influence the product's shelf-life. The disadvantages of heat-sealing processes are the heat input into the product as well as possible leaks in the sealed seams, particularly if they are wetted with the filled product. The product emerging from the leaky bags will contaminate the tools and requires frequent cleaning of tools and machine. Both packaging and sealing layer can be brought to melt under pressure in narrowly defined areas between sonotrode and anvil and combine cohesively when an ultrasonic sealing process is applied. It is of particular importance that this process provides clean and tight sealing seams even with product soiled films.



Ultrasonic sealing systems are also characterized by high energy efficiency and very short sealing times between 80 and 200 ms. Further, the method achieves significantly narrower sealing joints, which results in a larger number of tubular bags being produced per film roll. Thanks to all these advantages, ultrasonic sealing achieves a significantly higher yield of good products in comparison to hot and cold sealing.

### Convenience Remains Key

The consumer demand for convenient and easy-to-use products continues to increase. The trend is food and drink you can consume easily or at work.

For consumers, it is important that they require little or no time for preparation. Snacks have also been on the rise for years and are developing into a mega trend. Consumers increasingly buy fresh products from the refrigerated section. All these are offered chilled and without thermal preservation or preservatives. They can be consumed immediately and with little time or processing effort. Here, primarily small and single portions are an important sales driving force and each year new products are being launched.

### Inert Gas for Longer Shelf

Especially in the sensitive convenience segment, hygiene and durability as well as gentle processing and packaging solutions are of particular importance.

A very effective method to grant food a longer shelf life is packaging under inert gas, also called modified atmosphere packaging (MAP). The process preserves the original taste, appearance and consistency of the food and makes it more durable. The proportions of the component gases, carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>) and oxygen (O<sub>2</sub>), are individually adjusted to the product. Particularly for products with low fat and high moisture contents, it is of utmost importance to inhibit the growth of microorganisms. This can be achieved with MAP by using an antibacterial protective gas atmosphere.

For products high in fat, but with a low water content, however, the main target is the protection against oxidation. For MAP, the gas-tightness of the protective gas packaging is of ultimate importance. Faulty seals resulting from tiny leaks can lead to



aroma and flavor losses and to premature spoilage. Gas tightness measurements for quality control are therefore a must when using MAP. Depending on requirements, one can either take random sample measurements in the laboratory or integrate test chambers for in-line process control within the packaging lines.

### Flexibility

People are different and so are their habits and preferences when it comes to food and drinks. The number of product types is immense and at the same time, the life cycle of a product is often very short. The ability for innovation and a high responsiveness to changing consumer trends is crucial for companies in the food and beverage industry in order to remain competitive. This is true not only for recipes, but also for packaging shapes and sizes.

There is a rising demand for fully automated, customized packaging systems that increase productivity, reduce staffing costs and allow hygienically perfect processing. Manufacturers often process several products on one and the same line. To do this, the packaging machine must be extremely flexible and allow a quick and easy resetting to new formats thus enabling producers to create different packaging designs and configurations.

Automated packaging technology, designed to ensure maximum speed and flexibility and gentle handling of products, will make it possible to adapt the produced goods to consumer preferences quickly and promptly. In countries with a large population and high population growth, such as in Asia, the focus of the end user industries is directed on the continuous high performance of a system to provide people with high quality and safe food and beverages.

### Focus On Hygiene

Food safety is increasing in importance worldwide. This is leading to more stringent regulations in terms of hygienic processing and packaging.

Machines and equipment must comply with the rules of hygienic design. This means no leftover products, soil or micro-organisms must be able to form a residue inside cavities and gaps. On top of that, machines and components must be easy to clean. This is the only way to eliminate microbiological



hazards. Automated processes are generally more hygienic than semi-automated processes, since the risk of contamination is reduced with fewer operators coming into contact with food. This is why more and more robots are used for packing food products.

Quick pick-and-place robots in particular are important elements in automating packaging lines. They offer a high degree of flexibility, increase productivity, reliability and production reliability. The use of robots also guarantees consistently high processing quality, as fatigue and consequent lapses in concentration, the main causes of errors and fluctuations in manual work quality are eliminated.

Modern machine vision systems ensure full product enjoyment: They detect defective products, identify whether they are lying in trays correctly and ensure that only undamaged products are packaged and offered for sale. State of the art machine vision systems equipped with 3D scanners are able to identify the volume and provided the products' density remains consistent—the product weight as a basis for a high quality collating and grouping process.

The robots are able to complete the individual product information so that it lies within a specific weight range. Depending on the application, these optimizations make it possible to save up to three percent of raw materials that are currently overproduced in order to meet statutory regulations.

## EREMA DISCOVERY DAYS 2018

*The future of the circular economy - innovative technologies, effective strategies*

More than 1.000 guests invited by EREMA made their way to Ansfelden, Austria, for the Discovery Days 2018 from 27 to 29 June. Well-known companies from the plastics sector, such as Borealis, Engel, Greiner, Haidlmair and Henkel gave participants an insight into their view of working with plastics in a sustainable way.

Besides the technical and strategic answers presented by EREMA with regard to plastics recycling, there was an extensive array of perspectives on the topic of the plastics industry - the circular economy.

The conclusion of the conference: only more intensive collaboration within the industry can collectively develop the required technologies which will meet the recycling targets and thus see more recycled pellets used in end products.

Ansfelden, 3 July 2018 - with this year's Discovery Days EREMA staged a multi-company event to inspire its attendees together to address what is without doubt the most talked about topic in the plastics industry: how the amount of recycled material in and the recyclability of end products can be increased.

The impressive presentation of concrete lighthouse projects in the post-consumer and production waste



recycling sectors showed how advanced the technical recycling solutions are already. For them to become a fixed part of the solutions of tomorrow, everyone involved in the entire plastics chain must have an intensive exchange of experience. "As a producer of brand articles we work systematically together with our partners on optimizing our packaging. In doing so we rely on small amounts of material which, on the one hand, are made with recycle and are at the same time recyclable. Resource efficiency and premium products are not a contradiction in terms in our view," says Thorsten Leopold, Head of International Packaging Development Home Care at Henkel. Attendees were shown how far-reaching the product range of such end products made of recycle already is today at the accompanying product exhibition at the EREMA headquarters. From pipes for the construction industry and lifestyle products such as sunglasses to coffee machines - products containing recycled material have been part of our daily lives for quite some time. High-quality recycle is essential here, made possible by modern recycling technology. Visitors were able to see this for themselves throughout the Discovery Days: a total of 10 recycling machines from EREMA and its sister company PURE LOOP were live in action around the clock.

- Machine Demonstration at DD18
- Conference at DD18



## FELICITATION

### EREMA

*Plastic Recycling Systems*

&

**IR Group of Companies**

Congratulate M/s *Tri-pack Films Limited*, for bringing patented technology of Recycling Plastics waste Machine by EREMA. This is a step forward to make Pakistan more environmentally green, but also to bring a contribution to its growth and to compete as a Technological HUB.



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## CLEANING UP PET, THE GREEN WAY

During the last few years, the term ‘sustainability’ has evolved and developed worldwide, with companies in various industries placing more importance on corporate social responsibilities and focusing on going green with their processes. Saving resources and energy as well as reducing greenhouse gas emissions have gradually climbed their way up companies’ priority lists.

One such way companies have sought to achieve this is through recycling of material, such as paper, glass and plastics. This last material particularly has been a worldwide and longstanding concern for the environment due to its use. Plastics, used in virtually every industry as material for electrical components, coatings, or even packaging, are generally non-biodegradable, and when burnt in incinerators, emit greenhouse and other gases that are harmful to our environment. As such, more efforts have been made to recycle the material in order to reduce environmental impact.

### Pet Plastics

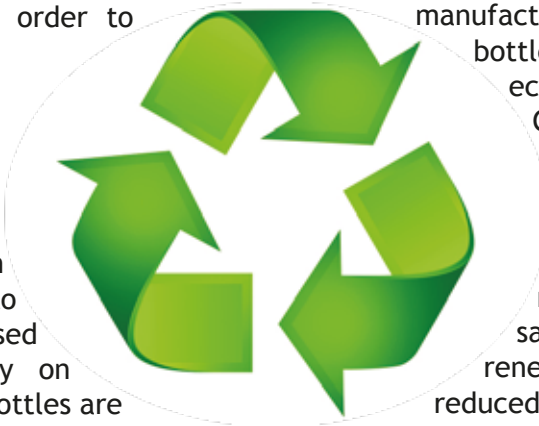
Every year, more than 500 billion PET bottles are blow-molded. Logically, each of these is thrown away and the bottle gets recycled to food- or non-food-grade PET or reused for different purposes. Currently on average, about 40 percent of PET bottles are recycled, generally for use as non-food-grade PET such as in China where they are processed into textile fibers or other utility items. However, this percentage is slowly growing due to the increasing efforts of governments who ban landfill, disposal sites and waste incineration facilities from accepting PET material. Germany for example, is one such country that has already issued a ban for including plastics in landfill. Statistics show that with this decrease of landfills, the recycling quote increases.

Not only is this increased recycling quote better for the environment, it would also help companies reap additional benefits such as savings in costs and production processes. Generally, PET provides good chemical resistance. It also has exceedingly high alcohol and essential oil barrier properties, and the



degree of its impact resistance and tensile strength is also very good. Using recycled PET (rPET), all of these advantages and characteristics are preserved. In fact, rPET does not lose out in any way to ‘new’ PET.

Further, according to a study from the Institute for Energy and Environmental Research, beverage manufacturers who use rPET for new bottles are able improve their ecological footprint considerably. Greenhouse gas emissions alone can be reduced by 69.5 percent when rPET is used compared to crude-oil PET bottle production. This means that PET recycling reduces CO<sub>2</sub> emissions, saves energy, is gentle on renewable resources and has a reduced environmental impact when compared to nonrenewable resources.



### Food-Grade RPET

With all the advantages of recycling PET, this opens up myriad opportunities for food and beverage manufacturers to delve into with the use of rPET as packaging material for their products. However, the concern of these manufacturers remains: would rPET be considered safe by food safety standards? With increasing focus on food safety both by the industry and consumers, ensuring that the rPET is food-grade material is but an essential step. This can be done through including thorough washing and decontamination in a bottle-to-bottle recycling system to produce food-grade flakes (resultant material from PET recycling).

## Pet Washing

Washing the PET material is crucial in the recycling of PET for food-grade rPET. The following is an example of a PET washing process in essence:

1. **Pre-washing:** Bottles pre-sorted by color are first ground, and the resultant flakes are then pre-washed at light temperatures. Most of the sand and any entrained dirt particles are also mechanically removed by jets and friction.
2. **Intensive Washing:** Remaining labels and adhesives are detached in the subsequent caustic treatment zone.
3. **Filtration System:** The soiled caustic is treated such that it can be used again at a consistent level of quality.
4. **Density Separation:** A sink-or-swim process where the lighter polyolefin (PO) from the bottle caps are separated from the heavier PET flakes in a density separator.
5. **Multi-Stage Post-Washing:** The flakes are then rinsed with hot water.
6. **Drying:** The washed flakes are dried mechanically and then thermally dried using a hot-air blower.
7. **Color-Based Sorting:** The flakes are once again sorted by color and packed in bags once metallic residues (if any) are removed by magnetic separation.

## Pre-Washing

The first step of pre-washing is a particularly important step in the PET washing process, as it ensures the removal of all foreign materials in their entirety, principally labels and films.

Modern-day label materials are typically made of plastic films, often featuring some elaborate printing. While these definitely enhance the visual image of the products, they are categorized as contaminants in the washing process. If labels get as far as the wet washing section, the printing ink can be washed out of them, and come into contact with the PET when dissolved in the washing water. This has to be absolutely avoided if the rPET generated is to be deemed food-grade material. Moreover, another disadvantage of treating labels in the wet washing section is that the substances released there contaminate the wastewater. Hence, the emphasis of

the PET washing process should be placed on this first dry pre-cleaning step in order to ensure that only recyclable constituents of the input material (PET and PO) are processed in the wet washing zone.

## A Double-Function

The overall washing process also integrates the return of used media. Hot-water rinsing for the flakes is based on a cascade principle, so the continuously treated water can be re-used several times, thus guaranteeing optimum quality of the media employed and rigorous resource-economy. In particular, the combination of intensive washing, caustic cleaning and multistage post-cleaning can lead to high-quality colors in the washed stock.

## Filtration Systems For Dependable Cleaning

During wet cleaning of the recyclable constituents (PET and PO), a pollution load is formed. In order to maintain the requisite cleaning performance, this load has to be continuously removed from the process. One way is through filtration systems. Without adding fresh water in the washing process, the requirements applying to recycling PET for food-grade applications cannot be met. With the aid of the filtration systems, the requisite quantity of fresh water can be utilized to maximum efficiency. In this way, this enables the contents of all the process's water basins to always be replaced, continuously and so rigorously, such that it would prevent contaminated water basins in the system, and keep the loading in the waste water at a very low level.

The contaminants concerned include suspended ink particles and adhesives which would be found as residues in the caustic of the cleaning process. In the event of inadequate separation, these may impair the cleaning effect. If the washing media are excessively contaminated, the PET flakes involved may be re-contaminated by the washing caustic.

In order to eliminate this risk, a membrane-based separation process that involves a cross-flow filtration can be introduced. This would involve the liquid to be cleaned flowing parallel to the



membrane, and due to the overpressure inside the system, part of the caustic flows through the membrane. This permeate can then be fed back into the washing caustic. Additional filtration units can also be integrated for arresting coarse dirt particles in order to maximize the PET flake quality in bottle-to-bottle recycling.

With these, the PET washing process can operate cost-efficiently thanks to economical use of caustic soda and fresh water, and together with the minimized heat and energy losses, they ensure dependable cleaning of the PET flakes with the cleaning liquid filtered inline.

### Decontamination Process

Once the PET washing process has been completed, the resultant flakes now require treatment so as to ensure its food-grade quality. With a drying reactor, the PET flakes can be adjusted to a uniform temperature level. This thus allows for short process times and a homogeneous temperature distribution in the treatment reactor.



As a result, this process uses a lower level of energy consumption compared to conventional technologies, rendering the decontamination process more cost-efficient. The flakes are decontaminated in a vacuum reactor without any excessive mechanical or thermal stress on the material.

## Flint Group XCURA EVO UV LED Inks

To stand out in the competitive offset printing arena, printers look to UV LED technology for better print, greater efficiency and improved pressroom flexibility. Recently launched XCURA EVO UV LED inks deliver on all three fronts, according to Flint Group, printing ink manufacturer worldwide and developer of the XCURA EVO ink series.

### Better Print

The secret to XCURA EVO UV LED inks is the advanced resin technology,” says Rod Balmer, Global Product Development Director of Energy Curable Inks. “The proprietary formulation offers far greater gloss, color strength and dot sharpness.

### Greater Efficiencies

Increased efficiency means faster processes and decreased costs - both of which XCURA EVO UV LED can provide. Good for the wallet and the environment, XCURA EVO inks demand less energy and, due to excellent transfer properties on all substrates, generate very low waste.

### Improved Pressroom Flexibility

Tyler Newsom, Sheetfed Product Manager,



notes that “XCURA EVO inks excel in a wide variety of pressroom conditions. They perform outstandingly on all major printing presses - with new and retrofitted equipment - even at the highest speeds.”



## European Commission Proposes Ban On Single-Use Plastic Products

*"Plastic waste is undeniably a big issue and Europeans need to act together to tackle this problem."*

The European Commission has proposed a ban on ten single-use plastic products in order to curb marine plastic waste. The proposal is in view of the growing plastic litter in oceans and seas. As part of the proposed European Union-wide rules, the Commission plans to prohibit disposable plastic products that have plastic-free alternatives and in the absence of such alternatives, it aims to restrict their usage. The plastic products proposed to be banned contribute to 70% of all marine waste and include cotton buds, cutlery, plates, straws, drink stirrers and sticks for balloons. Disposable plastic drinks containers will only be allowed if their caps and lids remain attached.



According to European Commission Vice-President Frans Timmermans said: "Plastic waste is undeniably a big issue and Europeans need to act together to tackle this problem, because plastic waste ends up in our air, our soil, our oceans, and in our food. "Today's proposals will reduce single-use plastics on our supermarket shelves through a range of measures. We will ban some of these items, and substitute them with cleaner alternatives so people can still use their favorite products." The Commission urged member states to curb the use of plastic food containers and drinks cups by employing measures, such as setting national reduction targets or charging consumers for single-use plastic products. In addition, the body

noted that member nations will have to collect 90% of single-use plastic drinks bottles by 2025.

Other proposals include requiring producers of food containers, packets and wrappers, drinks containers and cups, tobacco products with filters, wet wipes, balloons, and lightweight plastic bags to help cover the costs of waste management and clean-up. The rules also specify standardized labeling requirements for sanitary towels, wet wipes and balloons to educate users on how waste should be disposed of. The Commission will submit the proposals to the European Parliament and Council for adoption.

## Coca-Cola Lends Support To European PET Recycling Project

According to the news US beverage firm The Coca-Cola Company has extended its support to a European chemical recycling project for polyethylene terephthalate (PET). The company is set to join the Industrial Advisory Board (IAB) of the project, which is known as Demeto, financed by the European Community into the framework of the Horizon 2020. PET is used for making bottles, jars, containers and other packaging applications. Despite its widespread use in the packaging industry, PET has a low recycling rate. Only 20% of it is recycled, and enters back into the value chain.



Even in Europe, a large amount of PET waste, including colored complex and contaminated materials, ends up being incinerated or disposed into landfill. To address this problem, Demeto, along with its partners, is focused on introducing a clean, safe and profitable method for the treatment of difficult-to-recycle PET. Joining the IAB of the project is in line with The Coca-Cola Company's resolve to support PET recycling. Comprising of 16 companies involved in the complete PET/polyester value chain, the IAB is a committee of stakeholders external to the project. They engage with the partners of the consortium to keep track of its public developments and provide feedback to guide its business development activities.

Coca-Cola, which aims to use 50% recycled PET in its plastic packaging by 2030, is focusing on the entire packaging lifecycle - from manufacturing of bottles and cans to their recycling. Coca-Cola Central and Eastern Europe technical director Maria Luisa Polli said: "Producing PET from recycled plastic in a sustainable and profitable way is an important step forward. That is why we are thrilled to work with Demeto and the broader industry to help make new revolutionary technologies available in support of a circular economy." The Demeto project partners are planning to build an industrial plant for chemical recycling of PET. They will deploy a technology that enables a complete recovery of PET without any degradation of the material. Besides, the technology will allow the project to return post-consumer PET into its basic components, Ethylene Glycol (EG) and Terephthalic Acid (PTA). The project expects to offer an alternative source of raw materials to the plastics industry.

## Reifenhäuser Developing Extrusion Components Business Unit

At a technology breakfast organized by Reifenhäuser Inc. at NPE2018, Chief Strategy Officer Ulrich Reifenhäuser announced a change of strategy: developing its components area into its own business unit. The new unit, called Reifenhäuser Extrusion Systems, comprises the activities of the Reiloy, Extruder assembly, EDS and Enka Tecnica units. In the past, the company only supplied extruders and dies for its own lines. "Now, for the first time, we will also be selling to our competitors," Reifenhäuser said. "We thought about it for a long time and decided it would be the right decision."



According to the news the new unit develops and manufactures polymer carrying and forming parts such as screws, barrels, film tools, extruders, screen changers, spun bond fabric tools and spinnerets. "We want to follow the success story of Reiloy," Reifenhäuser said. Reiloy, a member of the Reifenhäuser group, manufactures screws and barrels. "And it's always the same question: make or buy? Do we develop it ourselves, or buy the expertise? In this case, it was buy."

To that end, the group purchased EDS, an international supplier of high-end extrusion tools and special dies, in January, thus acquiring design expertise in dies and film tools and the tailor-made EDS product range. The group is also ramping up capacities at its site in Maize, Kan., where it is expanding its service business for dies. Reifenhäuser Inc. is a unit of Reifenhäuser GmbH & Co. KG Maschinenfabrik of Troisdorf, Germany.

"We plan to start reworking film dies and spinnerets in North America this year. In order to make that possible, we're investing in machines and devices, including our own surface plating," said Uwe Gaedike, managing director of the new business unit. He added: "Another step might be to produce and offer complete assembled extruders or flat dies in the U.S. Reifenhäuser Extrusion Systems will also target growth in Asia."

## Uflex To Highlight Asepto At Propak, China

India's largest multinational flexible packaging materials and Solution Company said it has had an encouraging response from the market already with Asepto and will test waters for its holographic applications in aseptic liquid packaging at the event.

Talking about the potential that the brand beholds, Ashwani Kumar Sharma, President and Chief Executive of new business initiatives, Uflex, said:



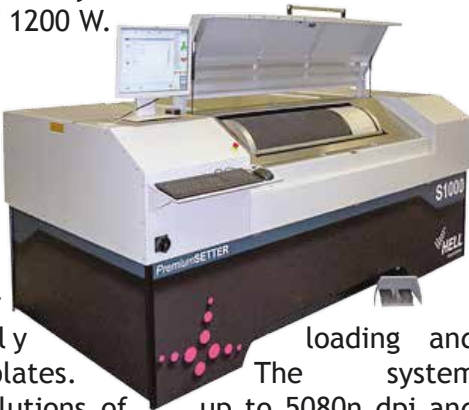
"This show, considered to be the carnival of processing and packaging technology industry will help us showcase Asepto's holographic excellence in the untapped Chinese packaging market. We want to make a dent in the market by reaping the first-mover advantage." "Asepto is uniquely positioned and has all the capabilities for strengthening the market share of beverage manufacturers around the world, especially large markets like China. Holography has not yet been explored by the Chinese. They also said our dynamic range of holographic packs, which is our USP, has the ability to grab a substantial market share in this segment."

According to Sharma said that “In fact, the Chinese premium aseptic carton segment is growing at an accelerated pace, which several food companies intend to penetrate into by exporting their products in metalized packs. Here, Asepto has a clear strategic advantage to establish itself as the front-running specialized retail packaging solution for beverage companies. The brand with its unique UHT metalized/holography packs happens to be the perfect and preferred choice in the significant six layer aseptic packaging market of China. As a matter of fact, Chinese consumers are increasingly looking for a premium appearance for their brands. This is where Asepto perfectly fits in. Asepto Spark and Asepto Premium are the two variants with variety of holographic, multi-lens, foil stamping & embossing effects on the packs. While there may be choices in the market but Asepto scores way high on the distinction parameter. Sharma further added “Asepto is gradually gaining a firm toehold in the Indian market simultaneously making noteworthy strides internationally. China shall soon witness the agility, uniqueness, novelty and splendor of Asepto. We are all set to delight the Chinese.”

## Hell Gravure Systems New PremiumSetter For Direct Laser Engraving

According to the news the company introduced PremiumSetter S1000, a new laser system for direct engraving of Elastomer printing plates (metal back and Mylar back). The system uses two lasers with a total output of 1200 W.

An integrated loading table, vacuum cylinder with clamping bar function and foot switch control allow for user-friendly loading and unloading of plates. The system works with resolutions of up to 5080n dpi and engraves plate sizes up to 1350mm x 1066 mm ((53” x 42”). The Hell portfolio of laser engraving systems now comprises the PremiumSetter S1700 (large size plates), S1300 (medium size plates) and the new S1000 (small size plates).



## DKSH Expands Market For SOMA's Flexo Printing Presses in Japan

DKSH and SOMA Engineering have signed an exclusive distribution agreement to provide sales and technical services for its center impression flexographic (flexo) printing presses in Japan.



According to the source DKSH Business Unit Technology, a leading Market Expansion Services provider for technology companies, and SOMA Engineering, a Czech manufacturer of printing presses, have signed an exclusive distribution contract to provide sales and technical services for its center impression (CI) flexographic printing presses. DKSH has extensive experience in Japan for narrow-web, flexographic printing and related technical services. For SOMA, DKSH will now open the Japanese flexible packaging market with its wide-web flexographic printers. A special focus lies on the expansion into new segments, such as environmentally-friendly and water-based flexographic printing.

The company is the country's leading Market Expansion Services provider with a focus on consumer and luxury goods, specialty chemicals, pharmaceuticals and food ingredients as well as technology products, the company has grown dramatically, acquiring a large share of the global market in certain printing products, particularly for flexible package printers, developing a strong reputation in Europe, Asia, and the United States of America. With 75 business locations in 18 countries and around 1,250 specialized staff, including 500 service engineers, Business Unit Technology generated net sales of CHF 404.2 million in 2017.

**IR Group proudly represents as the authorized dealer of INNOVA Flexo**

**Products.** The products and solutions offered by INNOVA are developed together with international leading companies and are selected by our technical team according to high quality standards. These developments are made by combining the experience of the different stakeholders in the printing and converting industry. We continuously enhance our product portfolio to offer more value to our customers. Our consultancy is tailor made, from technical solutions to Merger and Acquisition support.

The INNOVAMOUNT is one of the elements which play an important role in the quality of printing. No doubt, the compressible foam tapes for plates mounting have helped flexo printers to reach printed

reproductions of very high quality.

The cushion, being softer than the plate, is compressed under the pressure of printing, allowing the plate remaining stable and the printed image to be reproduced without any deformation, with the minimum increasing dots and a very high printing quality.

The INNOVAMOUNT, is adapted to the specific requirements for any type of printing. It is available in different thicknesses and densities for the correct printing in solid areas up to a softer density which allows a four-colored process printing guaranteeing a clean image and preventing from the uncontrolled increasing dots.



- Double Sided Adhesive Tapes



Cloud Packaging Private Limited is authorize to quote, represent and correspond on behalf of Innova Flexo Products.

Mario Busshoff  
President



INNOVA FLEXO PRODUCTS, S.L

IR Group is proud to be an authorized agent of Maguire, the market leading materials control specialists, together provide new choices for extrusion control as well as a modular approach for a wide range of functions on a typical line.

#### Applications

Their blenders have been specifically designed to service film, cable, sheet, pipe and profile extrusion processes.

#### Connected Control

Customer can use existing equipment from Maguire while expanding control elements on both existing and new lines to maximize extrusion efficiency. More choice, more flexibility and more options to maximize extrusion efficiency.

#### Gravimetric Blending



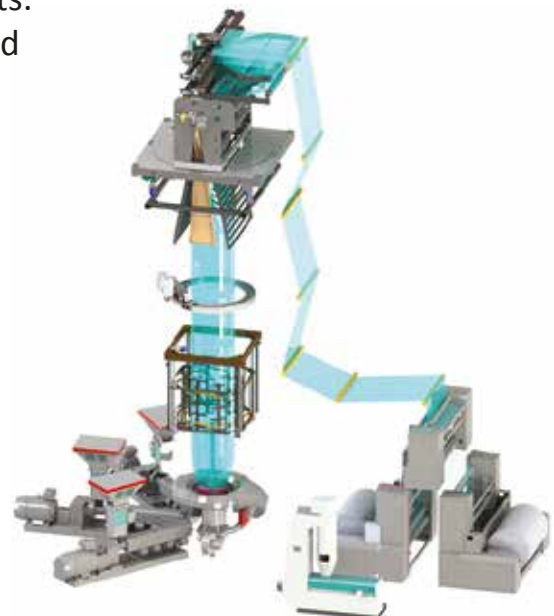
The new Maguire WXB Weigh Extrusion Blender has 6 slide gates as standard for universal dispensing and uses quick connect material lines in blown film for rapid material change options. Maguire offer nine Weigh Scale Blender series with over 120 mode is plus options available to blend up to 12 components. Complete dosing and blend control with accuracy of +/- 1%.

#### Loss in Weight Control



The Maguire LineMaster loss-in-weight control allows for faster startup time, improved product quality and reduced scrap, while ensuring the correct amount of material is used.

Accurate weight / length feeding, giving an average 4% materials saving.



## The 26th China International Exhibition on Packaging Machinery & Materials

The leading events on packaging industry “The 26th China International Exhibition on Packaging Machinery & Materials” and “China (Guangzhou) International Exhibition on Packaging Products” will be held again at Area A, China Import and Export Fair Complex, Guangzhou, PR China on 4-6 March 2019. As Asia’s renowned exhibition on smart packaging and a pacemaker of general packaging, Sino-Pack 2019 which occupies 5 interconnected halls, will showcase cutting edge packaging equipment and technologies for food, beverage, brewery, dairy, cosmetics, personal care products, cleaning products, pharmaceuticals, electronic products, household appliances, e-Delivery & smart logistics, etc. The exhibition is devoted to build a comprehensive platform covering the whole value chain of the packaging industry. It promotes smart, green and quality manufacturing, striving from “Made in China” to “Created in China”, “Speed of China production” to “Quality of China production”, “Products of China” to “Brands of China”. The four exhibitions of Printing South China, Sino-Label, Sino-Pack and PACKINNO cover printing, packaging, labeling and packaging products, to build a resourceful one-stop trade and information platform for various industries. (event detail: [www.chinasinopack.com](http://www.chinasinopack.com))

Cost-effective Solutions at China Packaging & Materials Exhibition: Package forms an integral part in the production process before a product is being launched in the market, ranging from candies, snacks, beverages, wines, takeaway food, to drugs, masks, shower gels, cleaning liquids, electrical appliances, etc. A good packaging can protect products and facilitate storage, transportation and display. Innovative technologies and materials can also extend the shelf life of products. Other than basic functions, packaging is a powerful marketing tool. Marketing professionals highlighted the importance of packaging and recognized it as the 5th “P” in the “4P” marketing theory (Price, Product, Place and Promotion). Many manufacturers break tradition to draw their customers’ attention, for example, Nike invented an innovative packaging for Nike Air, instead of using shoe boxes, Nike air is



packaged into an inflated plastic bag which looks like the trainer was floating in the air. On the other hand, the renowned watch brand Festina sells its water-resistant watch in a plastic bag filled with water. Packaging is essential for various kinds of enterprises to equip themselves with ideal packaging machinery and materials.

Sino-Pack and PACKINNO are committed to creating a centralized platform to gather value for money solutions which help various kinds of manufacturers to tackle their challenges throughout the production lines. Meanwhile, they facilitate the development of packaging technologies to fulfill different requirements of end product industries. The two fairs are concurrently organized with Printing South China and Sino-Label, to build a one-stop sourcing and information event, integrating the whole production of printing, labeling, packaging and materials. This signature event in the year will cover 10 halls in a total area of 100,000sqm. We provide free of charge business matching service to help overseas visitors save time and find right suppliers effectively.

### Group Visit & Privileges

Delegation groups can also enjoy express admission at the expo, free from onsite pre-registration procedures and are entitled to a number of pre-registration privileges, including: Express admission at Delegation Group Reception with VIP buyer badges & group photo-taking. Each delegation member is entitled to: - Free copy of show catalogue- One free souvenir - Free Admission to VIP Lounge -Items are subject to availability

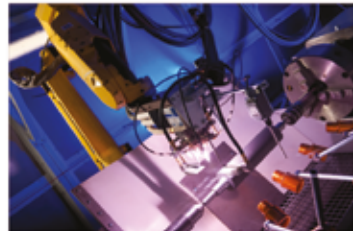
### Scope of Exhibits

Automated Smart Packaging Machines, Smart Logistics Equipment and Systems, Outer Packaging Machines, First Packaging Machines, Plastics Packaging Machines, Production Machine of Containers, Bar Coding Equipment and Materials, Auxiliary Equipment of Packaging and Measurement and Testing Machines.



Sandon Global manufacture and refurbish anilox rolls, sleeves and gravure cylinders from our specialised engineering facility in recorn, cheshire UK we've recently launched gravLite-a lightweight sleeve for the canning industries

We believe that only with a truly transparent relationship between all partners can we solve problems and improve both ours and customers products



**Fluid UV**  
(Narrow Web)  
Combination Engraving (Solid and tone)

Fluid UV is the evolution of our highly successful HVP engraving. Fluid UV has been manufactured with the intention of reducing ink.

**HOC**  
(Narrow Web)  
High Capacity Colour

HOC engraving specifically designed to print heavy deposits of colour ink without a backing white.

**HOW**  
(Narrow Web)  
High Opacity Whites

How engraving the target was set to print a rotary screen equivalent for pantone colours.

**OptiCell**  
Conventional Engraving

Conventional 60 degree anilox engraving has long been the flexographic industries standard offering the flexibility of printing both process and solid work across a selection of substrate.

**HVP**  
High Volume Process - Combination Engraving (solid and tone)

HVP is the latest generation of engravings for printing ; solids tone and vignettes . by Sandon Global in 2006

**HVS**  
(Flexible Packaging)  
Heavy Solids and Coat weight Engraving

HVS engraving was designed specifically in order to enable heavy coat weights of adhesives metallics varnishes,

**iPro**  
HD Process Engraving

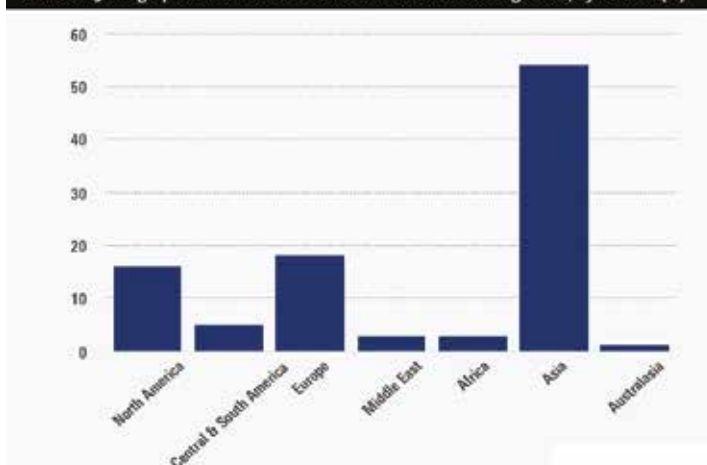
The iPro engraving is specifically designed to answer the question of 'High definition' printing in flexography.

## KEY GROWTH AREAS THAT ARE DRIVING COATING FOR PAPER AND BOARD MARKET

*According to the Smithers Pira identifies the five market pulls that are boosting growth rates in the coatings for paper and board market.*

Functional and barrier coatings have been used to enhance the properties and performance of paper and paperboard products for many decades. According to new research from Smithers Pira “The Future of Functional and Barrier Coatings for Paper and Board to 2022” demand will continue to grow in paper and paperboard applications over the next five years. Worldwide demand is poised to reach 218 million tons by 2022. The overall global market of \$279 billion in 2016 grew by 6.8% in 2017, and will continue at a pace of 4.9% to a market value of \$518 billion by 2022. Growth is being aided by an improved global economy and the involvement of underdeveloped countries and regions. In terms of specific markets, the Asia-Pacific sector will represent over 54% of worldwide functional and barrier coatings use by 2022, up from 46% in 2012. The Western, more developed markets, will show more modest growth in demand. Global growth opportunities are achievable across all regions.

FIGURE E.3 Geographic demand for functional and barrier coatings 2022, by volume (%)



There are many demands from the market that require a growing number of substantial advances in technology, leading to greater innovation on numerous levels. Market demands for more sustainable packaging are increasing, as are the regulatory requirements that are forcing companies

to consider new alternatives. The rate of technology change continues to challenge the industry, and the packaging industry continues to demand new solutions from functional and barrier coating suppliers. Smithers Pira’s report analysis identifies the following five the main developing areas and technologies that are pushing the market forward and are helping align with the evolving needs of the consumer.

### New Polymer Solutions

The largest volume trend in technology is the rapid growth of bio-based polymer alternatives to replace petroleum-based plastics like polyethylene in extrusion applications. Nano polymers and formulated water-based polymers utilizing a variety of structured pigments are also being used more. Water-based systems using advanced emulsion polymers are showing growth rates exceeding 14% in some markets, such as North America. Waterborne polyethylene terephthalate (PET) technologies from Akzo Nobel are also becoming of more interest as a sustainable alternative to polyethylene laminates and wax in many market applications.

### Active and Intelligent Packaging

The marketplace continues to demand functional and barrier coatings for paper and paperboard that will provide added benefits to the product, retailer and consumer. This is fuelling demand for more responsive and active packaging including antimicrobial products and environmentally sensitive functional coatings. Responsive packaging systems designed to react to stimuli in the food or the environment, to enable real-time food quality and food safety monitoring or remediation, is a growing field of use. These coatings are capable of exhibiting changes in physical or chemical properties in response to external stimuli - including pH, temperature, light and biological activity among others thereby eliminating waste. Antimicrobial packaging is another area of emerging ‘intelligent’ coating technology interest, and it is rapidly advancing with the application of nanotechnology and natural antimicrobials.

### Focus on E-commerce

The ever-growing e-commerce market is also playing a role in future growth in paperboard packaging

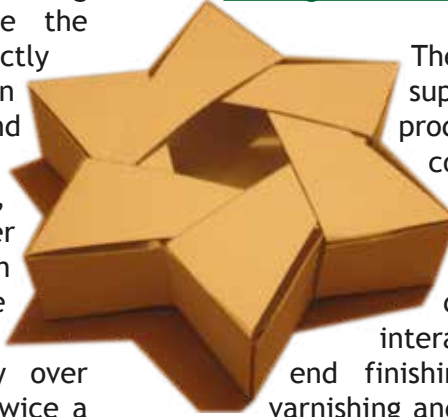
applications, and functional and barrier coating technology will be developed to provide the properties needed to ship more products directly to shoppers worldwide. Food products in particular need insulating, and lower cost and sustainable products are being sought to replace expanded polystyrene, wax, polyethylene, PVDC products and the other non-sustainable materials currently used. In developed markets, the arrival of online services, like Deliveroo and Hungry House, is aligning with a trend for more home delivery over 30% of US citizens now get food delivered twice a week, and this trend is estimated to grow at 3% CAGR for the next five years. This is expanding the range of menu choices available. High street fast-casual outlets have embraced this trend and, as they do so, are keen to maintain a superior brand experience, delivering meals in innovative designs with high-grade graphics in coated paperboard a popular format.

### Sustainability Agenda

Paperboard will continue to compete with plastics and other materials for packaging, and a variety of other uses. Expanded polystyrene (EPS) is broadly used to ship fresh seafood, package takeaway food items, cups, plates, coolers and other uses. EPS is water-resistant, low-cost, lightweight, insulating and structurally attractive for many of these applications, but unattractive from an environmental standpoint. Another use for EPS that will face pressure is the overnight shipment of frozen foodstuffs ordered online. Trends will continue to replace EPS with paperboard alternatives, using different combinations of formulated water-based coatings, innovative paper and paperboard treatments, and product design changes.

Functional and barrier coated paperboard is also replacing treated wood in some packaging applications where sustainability is an issue, or where lighter weight alternatives are desired. Ox-Box, a US-based company, has developed a paperboard product using functional coatings and treatments that is fully recyclable, lightweight and can withstand the elements of severe weather, without sacrificing the strength needed to perform in service. The Ox-Box product is replacing wood crates for shipping equipment, mechanical parts and chemical products.

### Intelligent Printing



There is also competition in supermarket freezers, where products need to stand out to consumers with a limited time to make a decision. Brands are putting pressure on printers and converters to deliver more colorful and interactive packaging, with high end finishing, like hot foiling, spot varnishing and embossing. Add a QR Code eliminates the need for taking up package graphic design space, and allows consumers to learn more about the contents of the packaging by merely pointing their smartphone at the package, is growing in popularity.

## **GOING HOLOGRAPHIC WITH FLEXIBLE PACKAGING**

It cannot be denied that nowadays all brand owners and converters are looking to achieve this final goal: to differentiate themselves and their products from competitors.

There are lots of different ways for us to achieve this purpose: price, service, technology, product availability and branding, and all of them are valid. It means that companies should continuously make improvements to sustain or achieve a leadership position.

Obviously, with globalization and the huge amount of converters that is able to print with the highest quality in flexible packaging available, regardless of the way they carry it out and taking the service as granted, brand owners are looking for something different and unique in order to boost sales on their brand products and gain more market share.

People only dedicate three seconds to choose a product on the shelf. This is pure statistics. In fact, people spend more time looking at their smartphone than looking at your products.

So what would you do to become 'the chosen one'? In other words, what should your packaging be like in order to stand out amongst the eyes of stringent

customers? Just think about something that you could do to differentiate. After metalized films, gloss or matt lacquers, which became almost a commodity, what else could be brought onto flexible packaging to attract customer's attention?

### Holography A Major Ally

This is where holography enters the action in the flexible packaging market with all the benefits it can offer. Traditionally, holography has been a niche market as the finishing in offset printing for narrow web, together with other technologies such as cold-foil or embossing.

Holography has been barely seen because of its high cost and the lack of machinery that is able to produce it. Holography is able to provide any type of package endless, unbeatable and eye-catching properties, making the product stand out to consumers, and flexible packaging is not an exception.

If we just imagine any well-known company logo with a certain holography pattern on top, whichever it desires, most probably any marketing department, it would be just amazing to explore further on. Effectively, multidimensional effects, shiny effects or colored 2D holograms will serve unlimited design possibilities for brand owners and converters.



### Anti-Counterfeiting Solution

Additionally, but not less important, holography acts as a barrier for the anti-counterfeiting. Did you know that flexible packaging claims to have no less than seven percent of the products counterfeited?

Nowadays, most companies complain about the large amount of fake products packed in a very similar package provided on the market. Believe it or not, heavy duty sacks containing cement can be a victim of fraud if the content is expensive enough to make it worth being counterfeited.

And there are many others to follow, from the well-known Pharma packages to the flexible packaging used for food in general. It is worthless to spend a fortune when creating a new brand, with all the promotion and marketing involved, as this new brand can easily be counterfeited.

Applying holographic effects onto a package implies undoubtedly many more difficulties to be copied. Therefore, companies can rely on this technology in helping secure their profits.

### Added Value Through Sustainable Holographic Packaging

And how is this holographic effect being produced? What is this technology based on and how can customers utilize it? The holography process is performed by laminating a holographic film to a printed (front or reverse) web where a UV varnish has been previously applied.

This coating can be applied at full coverage, randomly or at register onto a specific printed area. While these two surfaces are in contact, UV light is passed through the film in order to cure the varnish, so this one will be instantly casted with the surface relief of the holographic film. After that, both films are delaminated, and the Holographic film will be rewound for future usages. No

material is transferred from the film onto the substrate, like cold-foil does: therefore varnish is not transferred onto the film.

This allows for multiple uses regarding the holographic film. The effect can be applied onto a large variety of substrates, from monolayer LDPE (diapers, detergents) to laminate PET (wet wipes, stand-up pouches), from BOPP (food packaging) to paper (shopping bags). During this process, no VOCs are emitted into the atmosphere. This is important as this process does not add any additional exhaustion by the converter. By using ultraviolet lacquers we avoid any emission of undesirable and harmful VOCs.

An additional benefit is that when applying at full coverage, as well as having a shiny holographic design on top, it can also be used as a substitution of a laminated film.

Spotted or random application scenario normally results in a huge contrast among the design, making it very attractive. Besides the main benefits mentioned, converters wisely take a look on the downsides, so costs are for sure a concern also. The fact that the holographic reel can be reused (as it does not work as a transfer film but just as a cast film) makes the process sustainable from the cost point of view, achieving to be just a fraction of traditional costs in comparison to the traditional lamination process were carried out.

## LASER CODING FOR BEVERAGES

The global beverage packaging market is expected to grow from an estimated US\$97.2 billion in 2012 to US\$125.7 billion by 2018, as a direct result of increasing consumer demand for Fast Moving Consumer Goods (FMCG), such as beverages. This means that manufacturers are under increased pressure to improve their production line speeds and labeling systems capabilities.

With several coding and marking systems available in the manufacturing industry, knowing which one will best address production requirements is essential. Amongst all the options available, laser systems are well-known and trusted by beverage and canning manufacturers to increase production output and uptime, meeting growing consumer demands.



What advances have there been to laser systems to date, and how do they support the beverage industry?

A variety of different wavelengths have been

introduced over the years, in order to suit the varying substrates used within the beverage industry. It is a high demand production environment and therefore coding and marking solutions need to be able to keep up with production speeds, in addition to accommodating the increased amount of information required from batch codes and use by dates to nutritional information.

Laser coders have the ability to address these needs with no reduction in line speed, enabling manufacturers to meet demand schedules without concern for the quality of the coded information produced.



### Industry Trends

Looking at the long term, there are a couple of trends emerging. The first one is product proliferation. Large and small companies alike are starting to expand their portfolios to incorporate additional brands and create diversity in their product offerings. This enables them to target new consumers in their market of choice.

Coca-Cola is a typical example of one of the many companies growing their portfolio, with brand variants such as Cherry Coke or Vanilla Coke, designed to adapt to changing consumer demands for additional flavors and composition.

We also see a growing number of larger companies acquiring smaller brands to add to their portfolios. Product proliferation thus leads to production line speed increases to cope with the added demand, and a greater need for labeling and coding systems which have the capability of keeping up with faster production lines, but still perform effectively with the best delivery of quality possible.

The second trend is what we refer to in the industry as 'late stage customization', which is the production and supply of products for multiple

markets where the variable information is not printed onto the product or the packaging until the later stages of production.

This enables the goods to be customized for each market and in the quantity required, maximizing efficiency. Typically, companies using this production method are either large or mid-size and serve multiple markets. For example, if a food manufacturer based in the US wanted to export its products to the European Union, the information on the packaging would have to appear in multiple languages for each of the different markets.

In addition, regulatory guidelines and requirements vary from market to market. For example, the list of ingredients may have to be disclosed in some markets, but not in others. Manufacturers may also need to add specific data, such as duty information, or insert a geographical tracking code for product traceability. The ability to include data at the last minute therefore helps manufacturers be more flexible in their production. The added advantage of late stage customization is that it requires less packaging changeover time and less packaging material to use.

### [A Developing Marketplace](#)

In order to grow market share, retain and gain new customers, companies need to satisfy customer demands for diversity. Therefore, there is increased pressure on the industry to offer new variants.

In the past, the same type of product would be produced 24/7, but because of the diversification of the product range, this has changed into the need for efficient and more rapid product changeovers. The production of one type of product may take place in a morning slot, with a different product which may also differ in size entering the production line later in the day. Demands for faster changeovers will continue to increase, in parallel to the need for labeling and coding systems to meet time requirements.



More and more, coding is being used by manufacturers and retailers alike for marketing and brand promotions. Quick response (QR) codes, for example, are two-dimensional barcodes which can be used to record information about a product: consumers scan the code with their smartphone and get instant access to the relevant website where they can find out about current or forthcoming competitions, brand events and special offers. This is a great method for brand owners to capture information about the consumer and their preferential buying habits.

As code content increases, it is essential to optimize time and this increases pressure on daily operations. Manufacturing facilities now have to take into account the ability for coders to adapt to product changes, which include the selection of different codes and different code positioning on the product and processing line. Although this is an existing need, it is a challenge which was not there in the past. Thankfully, new technology such as coding hardware and software set-up tools are now available to make changeovers simpler.

### [Increased Demand Has Its Challenges](#)

Manufacturers need to increase lines speeds (or even add more lines) to meet growing production demand for FMCG products and maximize their outputs. High end manufacturers cannot increase the capacity of their lines significantly as too many things can go wrong with the numerous changes that may be required. Therefore, they increase line speed and may add a second line if necessary.

Cost, as always, is a big factor and it is important to consider what type of coding technology is being used. Inkjet printers and Thermal Transfer Over printers (TTO), for example, require consumables such as fluids and ribbons. Laser is the only coding technology which doesn't consume anything apart from power of course. As more products go through the lines, laser coding is an option that cost conscious manufacturers might consider.



Manufacturers are also concerned with legal issues around product quality, brand management and other reputational issues which may arise and lead to a recall and destruction of products a potentially costly outcome. From a coding perspective, traceability is crucial and so is having the correct information on the products.

However, retailers are more concerned with their logistics chain, wanting it to be as simple as possible with products being fully traceable but still in line with their own stock labeling system. Manufacturers and retailers have their own systems to define what constitutes a variable code.

Therefore, it is important for manufacturers of coding and labeling systems to fulfill requirements by understanding what customers want, whether they need high-quality QR code printers or an efficient system which will facilitate traceability. Consumers are primarily concerned about product quality and integrity, therefore the legibility of information on the product must provide information such as best by, or use by date.

An increase in more coding content also means that the laser coder has to have enough capacity, in terms of head room, to cope with the demand. Time optimization is therefore prioritized over other requirements as more characters have to be marked. A coder with a higher throughput and one that is able to incorporate more content would be ideal.

### Beverage Trends

A couple of years ago, there was a marked decrease in the use of cans in the beverage industry; now though it now seems that this packaging type has

regained its popularity. Marking on aluminum is therefore becoming more common again.

Aluminum cans are very easy to transport due to their light weight, and coding onto them is much easier than coding on other types of packaging. The fact that the 'best before' date lasts longer on this type of material in comparison to glass is a likely factor of its regained popularity.

The introduction of the ultra-thin polyethylene terephthalate (PET) by bottled water and soft drinks producers has caused problems for laser coding systems. There is a risk that traditional lasers could burn a hole or create weak points in the PET that may result in bottles bursting or leaking. Nevertheless, the industry has adapted to these lighter materials and has modified existing laser coders accordingly to reduce the depth of the laser marking, thus preserving the structural integrity of the PET.



A laser code is always permanent, which is perfect for traceability as well as the prevention of counterfeiting. This printing method is a better option for beverage packaging, compared to other coding solutions which may prove less efficient. For instance, applications such as stickers can be easily removed and ink printed labels can easily be smudged and therefore become unreadable.

Laser marking is of the highest quality, the outcome being a nice solid line. Although the purchase price of laser marking systems is higher than the initial cost of an inkjet system, minimal operating costs lead to a lower total cost of ownership over time.

## PLASTI&PACK 2018

### *16th Edition of the International Plastics & Packaging Industry Exhibition*

**August 2018, LAHORE EXPO CENTRE SHOW REPORT**

### *Opportune Platform to Unveil Global Trends of Plastic, Printing & Packaging Industries*

Plasti&Pack is the pioneering B2B exhibition brand of Pakistan which centers on the integrated industries of plastics, packaging and printing. For the past 16 years, Plasti&Pack is the nexus of business transactions, new technologies launchings and business collaborations between buyers and suppliers. Plasti&Pack provides the ideal business environment which is necessary for suppliers to demonstrate their machines and materials and buyers to compare and analyze them for making quantifiable business decisions.



The 16th Edition of Plasti&Pack took place from 2nd to 4th August 2018 at Expo Centre Lahore. The event was inaugurated by the Honorable Minister for Industries, Commerce and Investment; Government of Punjab alongwith Mr. Shafiq-ur-Rehman Zonal Chairman of Flexible Packaging Association of Converters of Pakistan. Speaking on the occasion, Minister for Industries, Commerce said that Plasti&Pack opens a window for all those who are looking to find solutions for future development and business expansion. Zonal Chairman of FLEXPACK said that Plasti&Pack exhibition providing complete business solutions for different types of Packaging businesses because various international and national companies who are directly and indirectly linked with the packaging industry display their products under one roof and establish competitive edge with healthy competition as the leaders in flexible packaging industry in Pakistan.

Plasti&Pack 2018 attracted a turnout of 17000 + trade visitors coming from all over Pakistan. More than 350 local and international exhibitors displayed their cutting edge machines and materials during the 3 days of the exhibition. In Plasti&Pack 2018, more

than 50 companies participated from China. Seeing an encouraging response these Chinese companies have confirmed their participation in the next edition of Plasti&Pack Pakistan and number of companies expected from China will definitely increase.

The extensive range of products displayed at Plasti&Pack 2018 includes Injection/Blow Molding Machines, Compression Molding Machines, Extrusion Lines, Resins and Masterbatches, Bag Making Machines, Filling, Sealing, Capping Machines, Blowing Machines for PET Bottles, Thermoforming and Vacuum Packaging Machines, Recycling Machines, Slitting, Rewinding and Printing Machines, Lab Equipment etc. Plasti&Pack received complete support from government bodies and trade associations which include Engineering Development Board (EDB), Pakistan Council of Scientific & Industrial Research (PCSIR), Pakistan Chemical Manufacturers Association (PCMA) & Flexible Packaging Association of Converters of Pakistan (Flexpack). Leading FLEXPACK members companies Roshan Packages Ltd, Macpac Ltd, Transwold Multipurpose Industries, HI-Tech Inks Pakistan, Speciality Printers, K-Group of Companies were especially notable among foreign participants alongwith several big companies.

## Vice Chairman (North) FLEXPACK Conducts 6th Annual Packaging Forum

The 6th edition of Annual Packaging Forum (APF) was held on 4th August 2018 at Lahore Expo Center, Pakistan. Mr. Shafiq-Ur-Rehman, CEO of Messer Pak Packages and Zonal Chairman of Flexible Packaging Association of Converters of Pakistan was the Chief Guest & conducted the conference which was organized by Messer Pegasus Consultancy as the concurrent event with Plasti&Pack 2018 at Lahore. The theme of the conference was "Corrugated Packaging: One Choice -Many Reasons". The panel of speakers comprised of eminent names representing University of Engineering & Technology (UET) Department of Polymer & Process Engineering, Packaging Solutions and Micro Star Machines. The speakers through their presentations accentuated on the merits of corrugated carton as secondary packaging and its role in product safety, speakers also highlighted on latest current & future trends, transportation and storage techniques in Corrugated Packaging. Annual Packaging Forum received full attendance from industry professionals who took keen interest in papers presented and raised questions pertaining to common challenges of box packaging.



### PICTORIAL HIGHLIGHT



## Simply Cartons Targets Growth With New BOBST DieCutter

According to the news the Nottingham-based carton manufacturer has bought a BOBST EXPERTCUT 106 PER die-cutter. The machine can process up to 9,000 sheets per hour. Simply Cartons works with brands in the health and beauty, confectionery, beverage, food and gifting markets. The firm has been expanding, buying a new 2,879 sqm warehouse at Bleachers Yards.

Paul Elston, Director at Simply Cartons, said: “The new die-cutter will allow us to push the boundaries of what is possible for our customers. Our running speeds are expected to increase, whilst maintaining the overall quality of our products. “We deliver unique and novel solutions to our customers but this can only be achieved if we are

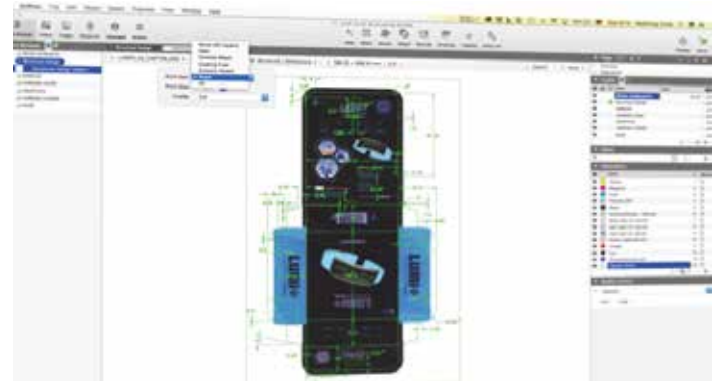


operating efficiently with the best equipment available for the job. After looking at several alternatives, we felt the BOBST Expert cut 106 PER offered the best overall package to help us fulfill our wider business ambitions.” Lee Alton, area sales manager, BU Sheet-fed, BOBST UK and Ireland, added: “We have been in discussions with Simply Cartons for some time now to ensure that the machine they chose would address their requirements in every way. We are really pleased to be working with the company and proud to have them as one of our customers.”

## Esko Releases Latest Version of ArtPro

Esko has announced the release of its packaging and labels prepress editor, ArtPro+. It is part of the Esko Software Platform 2018, the latest version of Esko’s integrated software solutions for design, prepress, workflow automation, colour management and supply chain collaboration in the packaging, labels,

display and sign markets. As per Esko, the ArtPro+ completes the prepress operation of editing work 40% faster, requires fewer clicks to complete tasks, features faster opening and saving of files with native PDF, and has a faster trapping. According to Isidore Leiser, CEO of French label converter Stratus Packaging, said, “The majority of the PDF artwork we receive today is processed through ArtPro+. It works just great to run our prepress production: we measured an increase in productivity and improved our service and customer satisfaction.”



ArtPro+ can run through Esko’s Automation Engine, tasks can now also be simplified through automation within the editor, without any need for scripting reducing the human error. Esko representative stated, “The combination of the new ArtPro+ and Automation Engine gives print service providers and label and packaging converters the solution they need to effectively deal with the faster turnaround times and ever-shortening print runs that have become common in today’s printing and converting environment.”

Esko has planned a series of events, roadshows and training webinars to train customers on the new ArtPro+ version. Key features, Operators can build PDF Action Lists without any special know-how or IT skills: Do it once in the editor and then repeat many times to cope with repetitive tasks. This automated action can be done by anyone and gives every operator a productivity boost at their fingertips. With a new font management connector for ArtPro+, everyone can now have immediate access to the fonts needed, when needed, to achieve quality output for designs. As a result, prepress professionals can make real-time edits to fix critical, last-minute text changes, reducing expensive print errors and costly press delays. ArtPro+ uses CAD data to maintain only a single file for all output purposes, eliminating file duplication, errors, and the need for

redundant tasks. The benefit is that everything is kept together in one file - the same file that is used to drive output.

## Cosmo Films: Winner At SAP ACE Award 2018

Cosmo Films- a leading global brand, offering value added BOPP and CPP films for packaging, labeling, lamination and Industrial applications has been awarded the prestigious SAP ACE Award 2018 in special recognition category. The honor bestowed by INDUS (SAP India User Group) is in recognition for being the front-runner in cloud adoption. Cosmo Films is at the forefront in adopting new technologies by leveraging innovation for digital transformation. The company has adopted cloud technologies like - SAP HANA Enterprise Cloud for mission critical applications and advance data processing, SAP Success Factors (HCM) for empowering and improving



employee experience, Sales force (CRM) for enhancing customer experience. Delighted over the latest achievement of the company, Mr. Jagdip Kumar, Chief Information Officer at Cosmo Films expressed, “Digital is a vital component of every organization’s game plan; As Cosmo Films gears to the process of business transformation in the evolving and expanding markets, futuristic cloud technologies is helping us achieve operational excellence and standout as market leader”. The SAP ACE Awards are an industry benchmark to recognize the best run businesses in the Indian subcontinent. It recognizes and lauds IT innovation across businesses who have achieved business excellence and showcased consistent innovation by using cloud computing as the key competitive differentiator. This year, SAP ACE awards 2018 received over 300 project

nominations competing across 16 major award categories, with a distinct focus on large and mid-sized companies.

## Henkel Works To Further Improve Recyclability Of Product Packaging

Consumer goods firm Henkel is working to further enhance the recyclability of its product packaging and to increase its use of recycled materials as part of its sustainability strategy. A joint development project between Henkel, packaging manufacturer Mondi, plastics manufacturer Borealis and the recycling technology company APK aims to significantly improve the sustainability of plastic multi-layer flexible packaging.

APK Managing Director Klaus Wohnig said: “APK AG, based in Merseburg near Leipzig, Germany, has developed an innovative



solvent-based process, called Newcycling that enables the recovery of high-quality clean-grade materials from complex multi-layer packaging. The pelletized recycle provides properties similar to those of comparable virgin plastics.” Conventional mechanical recycling processes are not able to achieve this. As an additional benefit, the Newcycling process is very economical delivering recycles grades that can be offered at competitive prices.

Mondi has tested the suitability of recycled LDPE from APK for multi-layer films at its research and development center in Gronau, Germany, and has carried out successful preliminary tests in a pilot plant on site. In this project, the LDPE virgin material previously used in flexible detergent packaging was largely replaced by APK LDPE recycle. Mondi uses the

reclaimed material in the co-extrusion and lamination of PE film with printed PET film to form a composite duplex structure, while maintaining the external appearance of the detergent bag. Henkel key account manager Timo Müller at Mondi said: “The joint project meets the European Commission’s strategy, adopted in January 2018, which calls for all plastic packaging in Europe to be recyclable by 2030. It also underscores the feasibility of reusing flexible packaging waste in multiple cycles of a truly circular economy that preserves valuable resources and avoids waste without restricting product performance.” The commercialization of the project and its intended market launch in early 2019 is currently being examined by the project partners.

## Flexible Packaging Equipment Maker Comexi Opens New Office in Moscow

Comexi, a provider of solutions for the flexible packaging printing and converting industries, has expanded its



operations in the Russian and CIS markets with a new office in Moscow. The company has appointed Alexander Rabassa as Business Director for the region. He will serve Comexi clients in Russia and CIS markets. Rabassa said: “Russia and CIS markets are very dynamic with huge potential for further growth, therefore it is crucial to be physically present in these markets so we can offer better service to our clients and be ahead competition.” The new office in Russia will address all CIS markets, including Lithuania and Latvia. It will offer top sales assistance, immediate, faster and closer logistic support and spare parts service to the customers.

According to the source Comexi has opened the new office with the support of the Eurosale group, which is specialized in the printing and converting sector. Comexi will continue to execute its strategy across Russia and CIS countries, and Eurosale Group will also work with Comexi team in Russia to offer logistical support and spare parts assistance to Comexi customers in Russia.

Comexi will provide a range of maintenance programs, machine conditions analysis, audits, new

remote support with augmented reality glasses and spare parts service through Eurosale Group partnership. The company is also planning to develop a technological center with advanced machines in this region. It will be used to offer demos and training in flexible packaging processes such as printing, lamination or slitting. Comexi vice president Ramon Xifra said: “By opening an office in this country, we will be closer to our customers and able to provide them with an even higher standard of service. “Establishing this new office and incrementing our presence in Russia is a significant step for Comexi, which will lead to further expansion in the region.”

## Gulf Printing And Packaging Opens Direct Food Contact Packaging Plant In Abu Dhabi

Gulf Printing and Packaging, a subsidiary of printing and packaging materials producer Al Khat Packaging, has opened a new direct food contact packaging factory in Khalifa Industrial Zone of Abu Dhabi (KIZAD). Located in the Food & Packaging cluster in KIZAD, the AED100m (\$27.2m) facility will serve as the company’s base in the UAE, Gulf Printing and Packaging said. Expected to employ over 200 people, the facility will feature printing and packaging equipment’s from Heidelberg, BOBST, Kohmann, among others to produce folding paper packaging and printing products for brands in the UAE, as well as regional and international markets.

According to the news the firm plans to undertake all of its export and import activities via Abu Dhabi



Ports’ flagship port, Khalifa Port. Gulf Printing and Packaging CEO Mohamed Abou Khalid said: “The new facility in KIZAD is a centerpiece of our expansion strategy. “Located just 10km away from Khalifa Port and halfway between Abu Dhabi and Dubai, KIZAD allows us to be easily connected to a large number of international shipping destinations, world-class infrastructure, dedicated investor support and so much more.”

Gulf Printing and Packaging, which is the exclusive provider of all print carton materials for McDonald's in the Gulf Cooperation Council (GCC), plans to print all the packaging used by McDonald's in the UAE and Oman in the KIZAD facility this year. Abu Dhabi Ports CEO Mohamed Juma Al Shamisi said: "We are confident that KIZAD's strategic location and the services we provide will continue to facilitate the growth of Gulf Printing and Packaging and its clients by further leveraging the synergies found in our Food & Packaging cluster."

## W&H Showcases Novel PP Woven Bottomer At Taicang Open House

According to the news the machine builder Windmüller & Hölscher spearheaded many innovations in woven PP. One of the fundamental developments was the CONVERTEX, which heat seals woven PP cross bottom bags and thus eliminates the need of glue for this type of bags. It also forms the backbone of the extensive portfolio of the company in the woven PP business. During the last 10 years, the output of the bottomer was more than doubled: from 60 bags per minute to 140 in the latest model. This speed represents the technological leadership in this type of equipment. Now, the product range features machines with capacities of 80, 100, 120 and 140 bags per minute.



The Open House in Taicang during CHINAPLAS 2018 celebrated the inauguration of a new show room for woven PP machinery featuring the latest model of CONVERTEX SLC 120. This demonstrated the company's continuing commitment to the Asian market once more. Further show rooms for the woven industry are supporting customers at the facilities in Germany and Czech Republic. Customers from all over Asia, including China, India, Indonesia and Thailand, appreciated the chance to witness the exceptional performance of the company and the live demonstration of CONVERTEX SLC 120. The visitor response was very positive. The market success is demonstrated by the accelerating number of machines coming into China in the course of 2017 and 2018.

The machine presentations convinced the visitors of highest productivity and versatility in the production of block bottom valve bags. In connection with the patented NANOTEX CYCLO unmatched bag performance can be achieved in terms of combining strength and deaeration. A team of Chinese and European technicians ran various woven materials to the satisfaction of the expert visitors. "Live demonstrations of technology are the best way to convince our customers about the capabilities and how it helps to exceed their requirements. This helps a great deal to conclude the successful sales of several CONVERTEX machines during the exhibition," underlined Jinghui Dai, General Manager of W&H in Taicang.

## New Focus on High Barrier

Innovia Films is refocusing its research and development efforts on high barrier materials thanks to substantial investment in new assets.

They will allow the company to produce a range of new Biaxially Oriented Polypropylene (BOPP) products with optimum barrier performance. The first to market will be high barrier metallized films, followed by ALOx clear high barrier films and coextruded oxygen barrier films.



According to Stephen Langstaff, Global Business Manager, Packaging entuses "We are very close to bringing these assets on stream and

have already been working hard to develop new films that will help to extend the shelf life of a range of products, thereby reducing food waste. What is also exciting is that we will be developing options that will allow pack simplification, by removing/replacing layers within lamination materials that restrict recycling. They will also assist in the production of mono layer materials for different applications that will enable them to be more easily recycled and be included in circular economy packaging design processes.

## FUELLING RETAIL GROWTH IN SOUTH EAST ASIA

According to recent industry predictions, the flexible laminated polymer packaging market in Asia grew annually by 3.3 per cent (CAGR) between 2010 and 2015, which accounted for more than 70 per cent of the total packaging industry volume in 2015. This is forecast to continue to grow, reaching 4.1 per cent between 2015 and 2020. The forecasts are understandable, with the Chinese flexible packaging market valued at more than US\$8 billion in 2015, while Thailand's flexible packaging market was valued in excess of \$1.08bn.

In ASEAN the ten-country grouping known as the Association of South East Asian Nations - the driver of this growth has been the successful implementation of both the ASEAN Free Trade Agreement (AFTA) and the ASEAN Economic Community. Between 2000 and 2010, AFTA reduced Intra ASEAN tariffs on all products to zero, conditional upon proof of manufacture, such as a Country of Origin Certificate, which is the warranty that no less than 40 per cent of all components originate in an ASEAN country. There is no requirement that the 40 per cent is actually produced in a single country.

Therefore, in the case of a personal care product, the chemicals could be sourced from Singapore and Malaysia and shipped to Thailand, the package could be manufactured in Vietnam and the whole product filled in Bangkok, labeled and exported to retailers in Indonesia, the Philippines or any other ASEAN country and incur no import duty at any of the border crossings. This allowed brand owners the flexibility to locate their production plants in the most logical, low-cost countries and export to their markets. Flexible packaging obviously scores big-time over alternative materials, such as rigid plastics, due to lighter weights and the reduced shipping costs.

The AEC, introduced in 2015, effectively established a South East Asian Economic Community promoting the free movement of capital investment and labor. The 2015 AEC saw hitherto 'local brands' expanding across borders to become regional brands, a classic

example being the Thai Bev acquisition of F&N Singapore in the beverage sector, Thai firm Berli Jucker's acquisition of French company Casino's retail assets in Vietnam, and Philippines-based San Miguel-Yamamura's expansion of its packaging footprint in Vietnam and Australia. The benefits of these macro regional policies are felt at street level; between 2000 and 2015 the average individual disposable income across the region has risen from an annual US\$50 to \$300 - a huge 600 per cent. This has effectively put more money in the consumer's pocket. Certainly, the region still has high poverty levels, but even low-income families aspire to life's luxuries occasionally, which accounts for the dramatic rise in modern retail trade over the past eight years. Vietnam is the strongest performer, hitting a sales growth of 9.5 per cent in 2014 before settling down to an average of 6-6.5 per cent over



the last year, while most other ASEAN economies average between 2.9 and 5.5 per cent.

Japan, on the other hand, barely limps along with 0.2-0.4 per cent sales growth, a perfect explanation for why Japanese retail giant AEON has been making significant investments in South East Asia and is now the dominant player in Vietnam, Malaysia, and Cambodia. Japanese brands such as Nissin, Kirin and Ajinomoto dominate supermarket shelves in each market through a local joint-venture partner, usually a different partner in each country. While Japanese converters such as DNP (Dai Nippon Press), Toppan and Rengo have all invested in flexible packaging production plants in Vietnam, Indonesia and Thailand, there is plenty of room to grow. Even with modern retail sales growth ranging between 2.9 and 6.5 per cent, the 'modern retail trade' represents less than 33 per cent of the total market capacity and has done since 2010. Despite the growth in modern supermarkets and retail malls, traditional retail - the street stalls and wet markets still hold

more than two-thirds of sales and has done for more than a decade. The reality is that although modern retail is showing robust measurable growth, the village mom-n-pop stores are actually out-pacing the big organizations in sales performance.

The Indonesian department of commerce estimates that in rural areas, over the past three years village-level new store openings have been expanding at a yearly rate of more than 200 per cent. Typically, when a family gets some disposable capital after paying school fees, buying the TV with cable and the motor-scooter, the next move is to open a store, usually in the front room of their home, and begin trading.

Again, flexible packaging dominates the front room, with single-portion packs of everything from shampoo to tobacco hanging from the ceiling in perforated strips. It is literally the flexibility inherent in the pack that gives flexible packaging the edge in the market; detergents, shampoo and personal care products can be found in similar pouches to condensed milk - almost entirely replacing canned milk, or RTD (Ready to Drink) tea replacing the PET bottle. A walk through the typical small town mini-mart is an eye-opener to the inventiveness of brands when it comes to flexible packaging use and it dominates the retail shelves across South East Asia.

## HALAL LEADS ETHICAL LABELING PROSPECTS GLOBALLY

With a \$55 billion market in 2017, the halal packaged food and drinks global industry is set for more gains in the next five years, with 5% value CAGR predicted. This makes it the most optimistic type of ethical labeling for packaged food and drinks, outpacing other well-known types like recycling, charity, “no added sugar” and “no artificial” claims. Growth is driven by the UAE and Indonesia although Asia Pacific remains the largest contributor with USD50 billion in 2017.

This is due to the cultural and religious mix across Asia Pacific and the presence of strong accreditation bodies, making the region’s halal segment a relatively stable and lucrative market. It is

interesting to note that China is among the highest-ranked in value sales despite having a Muslim minority population.

Strong regulators from the likes of Malaysia, Singapore and Indonesia are keys in setting a high standard for other markets to follow. Across Asia Pacific, governments and religious bodies are working together to improve the domestic state of halal regulation, with visible efforts seen in Thailand, the Philippines, etc.

Despite demands in the market for a unified global standard to ease manufacturers’ challenges in getting certified, the emergence of one is unlikely in the foreseeable future. Hence, guidelines will likely remain separate and vary across markets. Due to various reasons such as financial capability, uncertainty, and lack of awareness, other claims of halal compliance are gaining popularity to claim a slice of the growing demand for halal.



Muslim-owned businesses which leverage on consumer trust and shared values between business-owner and consumers are common. Hence, Muslim-owned businesses represent potential white spaces for halal-certified ingredients manufacturers to tap on. On the other hand, Muslim-owned businesses for packaged products may not be able to project these values visibly to consumers and gain their trust, in which case certification provides more assurance.

There are also businesses which choose to claim the exclusion of prohibited ingredients in Islamic law, which relies on the knowledge of consumers to exercise their own discretion when purchasing. In addition, false logos and unaccredited logos add to the confusion, with illegal syndicates found in less regulated regions or self-designed logos added to product packaging to ride on the trend.

## Saudi PRINT & PACK

### The 16th International Trade Exhibition

*for Printing & Packaging Technologies*

*Promoting Trade Growth in the Kingdom of Saudi Arabia*



# Saudi PRINT & PACK

Riyadh Exhibitions Company Limited is Saudi Arabia's top exhibition organizer and has contributed immensely to the growth of the MICE (Meeting, Incentives, Conferences and Exhibitions) industry in Saudi Arabia for over 36 years and has been serving 20 economic and financial sectors in the Middle East. REC's leading events are also certified by UFI. Their events facilitate customers to efficiently learn about the market, supply products and accomplish business dealings, generating significant revenues for the economic development of the national economy. (details available at [www.recexpo.com](http://www.recexpo.com)).



The 16th edition of the Saudi Print and Pack brings together industry professionals from around the Kingdom, the region and the world. The leading events keep pace with the growth of the packaging, printing, plastics, and petrochemicals industries in the Kingdom and present a unique opportunity for attendees to advance the growth and development of these sectors and increase their contribution to the national economy. The exhibitions aim to increase awareness of sustainability as an important industrial concept that, through the optimal use of natural resources, play a major role in protecting the future of subsequent generations. The Saudi Plastics and Petrochemicals and the Saudi Print and Pack 2019 will take place at Jeddah Center for Forums and Events from 27 till 30 January 2019. The exhibitions showcase the latest technologies in the printing, packaging, plastic and petrochemical sectors, which continue to draw government support and recognition of the major role they play in diversifying the country's sources of income and driving the national economy forward.

**Discover the latest technologies in machinery, paper and processes for the Printing & Packaging Industry.** The show focuses on the current developments in the packaging, processing, paper production, printing and converting machinery. It also exhibits raw materials, packages, containers and other components for an absolute insight into the best products for your business needs. The exhibition is an ideal launch pad for companies, manufacturers, exporters, importers and other key industry stakeholders who are looking for an exceptional opportunity to develop successful business partnerships and deals.

**Printing:** Audit Equipment, Buffing Machines, Design & Printing Services, Digital Direct Printing Techniques, Folding & Cutting Machines, Large Format Printers, Packaging Machinery, Paper & Printing Supplies, Prepress Equipment, Stitching Machines. **Packaging:** Consumer Goods Canning & Packaging, Design & Manufacturing Services, Filling Machines, Food Packaging Equipment, Industrial Packaging Equipment, Plastic Furniture, Packaging Machinery, Packaging Materials, Packaging Supplies.

**Opportunities & Benefits:** The exhibition is considered the most prominent event of its kind in Saudi Arabia. With the largest gathering of decision-makers, experts, manufacturers and suppliers, Saudi PPPP serves as a platform for networking, relationship development and revenue growth. Events attended by hundreds of local, regional and international exhibitors, along with thousands of specialized visitors.

**Expand Your Horizon With Saudi Print & Pack:** Unparalleled business and investment opportunities, Direct access to available investment openings in the Saudi market, An opportunity to meet notables and decision makers across various industrial sectors, Employing exceptional growth opportunities for industrial diversification, Staying up to date with the latest developments across key sectors to continue expansion, Distinctly identifying new export routes through the Kingdom, Personally connecting with local companies to establish a cross-industry base in Saudi Arabia, Achieving global exposure of your brand among the sector's experts and consumers, Put together an impressive list of contacts by the end of the exhibit.

## Toyo Packaging Pakistan Exhibited In Gulfood Manufacturing Exhibition

Toyo Packaging (Pvt.) Ltd, one of the largest Pakistani flexible packaging company exhibited in the GULFOOD Manufacturing 2018 which was successfully held on 6-8 November 2018 at Dubai. Toyo Packaging are doing business with leading food and Nonfood companies of Pakistan. Toyo Packaging completed expansion last year with following European state of the art machines. 1 BOBST Rotomec Printing Machine (8 Colors) 2 Nordmeccanica Super Combi 4000 Lamination Machine 3 Comexi Pro slit Slitting Machine. Toyo Packaging deal in "Holographic film, Holographic & Metalized Boxes, 2 Layer Laminated Film, 3 Layer Laminated Film, Triplex Foil Laminates, Registered Coating and Varnishes, Diaper Bags, Spot Metalized film". Toyo Packaging deals with flexible packing, printing, and bag making. The company provides solutions such as lamination, holographic film, gravure printing, and more, the company is ISO 9001:2008, ISO 22000:2005 and BRC certified. Toyo Packaging also focuses on having state of the art solutions to the problems of their customers. Being an Asian firm Flexible Packaging company also exports their



products and renders value added services to international market from Pakistan.

## Comexi Sells 4 Slitters To Pakistan Based Group

Comexi strength its strategic alliance with Universal Packaging Company (Pvt.) Ltd. & International Packaging Films (Pvt.) Ltd., the two leading sister companies in Pakistan. This new acquisition will allow to the Pakistan companies an increasing of its product portfolio, a better performance and a wider application offer in the packaging. Both corporations, mostly dedicated to the flexible packaging and production of BOPP in Pakistan, have recently acquired four Comexi slitters including the first Comexi Laser in this country and maintaining its on-going strategy of investment in leading-edge equipment.

"Comexi Laser is a groundbreaking technology that will allow Universal Packaging Company to make new trendy applications and innovative solutions such as easy open, windows and micro perforations in order to go one step further, expanding their product portfolio", explains Fran Perez, Comexi Area

Manager in this region. These new purchases will be a turning point for Pakistan flexible packaging market. "We are the first converter in Pakistan that will be working with this new solution" confirms Naveed Godil, CEO of Universal Packaging Company and International Packaging Films, companies that have built a solid and reputable business in the market.



## A Cool Solution For Packaging Water

*The number of consumers that order drinking water online is growing, and so is the awareness of the impact that packaging has on the environment. Harrogate, whose water was awarded “Best in Class” by The British Bottlers Institute Tasting Awards, met the new demand by offering a sustainable and convenient packaging alternative for e-commerce.*

Harrogate Water was the first UK Company to include a 10L Bag-in-Box packaging to its online portfolio. The company was looking for a larger packaging size format that would satisfy the needs of multigenerational families and be committed to the environment. Harrogate approached DS Smith Rapak interested in a Bag-in-Box packaging system that could meet their current requirements. DS Smith

Rapak provided a 10L version of their customizable Bag-in-Box system model. Bag-in-Box does not need to be lifted in order to pour, which makes it convenient for children and seniors to use, making water accessible to all members of the family. Liquid is poured through

the tap on the side of the box either from the kitchen table or directly from the fridge. Bag-in-Box is also a sustainable packaging solution that brings efficiencies throughout all stages of its lifecycle. Due to its square packaging shape, it has unbeatable storage and logistics advantages, which prevents unnecessary journeys, reduces the number of trucks on the road, optimises costs and reduces carbon emissions. Moreover, it takes up little space in the cupboard and keeps water cooler for longer, which is very practical on hot summer days for picnics and outdoor events.

According to the news Harrogate Water Bag-in-Box has quickly become popular in the online channel and is now available through all major e-commerce retailers such as Amazon and Ocado. Moreover, it is

also used in a new generation of water coolers designed specifically for Bag-in-Box. The complete solution is comprised of a cardboard box, Viniflow tap and inner bag. To preserve excellent organoleptic properties of water, Rapak uses a special additive-free barrier bag which keeps the liquid fresh for longer. All materials used are free from phthalates and Bisphenol A.

## Ecolean Keen To Explore Pakistan Market

Ecolean, a global producer of lightweight packaging solutions for liquid food, expands its business and acquires a 30,000 square meter piece of land in Landskrona, Sweden to establish a new production facility. The expansion is part of the company's ambitious growth strategy.

The increase in capacity is well needed to meet the liquid food industry's demands for Ecolean's lightweight and innovative packaging solutions. In the agreement, an additional 30,900sqm can be obtained, when needed in the future. As part of our ongoing expansion strategy, this investment of 25-30 million euros will enable us to continue being a fast growing and rapidly expanding company, says Peter L Nilsson, CEO, Ecolean Group. The new production facility will be up and running in 2020 and we expect to add around 100 new job opportunities within a few years' time, he continues.



The new production facility will be located only 20 km south of Helsingborg, where the company's headquarters and one of their existing production facilities are located. Ecolean has 400 employees, half of which work in Helsingborg. In addition to Sweden, Ecolean has one production facility in China and one production facility under construction in

Pakistan, estimated to start its operations 2019. Ecolean collaborates with leading brand owners in approximately 30 countries and has eleven sales offices globally.

## Starlinger Delivers 100th LamiTEC

Starlinger delivered the 100th lamiTEC to Fatima Packaging in Pakistan, which has been producing woven plastic sacks for fertilizer, sugar, rice, seeds, chemicals, and other products on Starlinger machinery since 2012. On the one hand, Fatima Packaging uses the sacks to package its own products; on the other hand, it supplies companies in Pakistan and Afghanistan with packaging material. The coating process on the lamiTEC MX ensures that the content of the woven bags is protected from external influences such as moisture. The machine is part of a complete AD\*STAR project; this means that the installed capacity of currently around 52 million sacks per year will be increased shortly. In addition to the coating line, the scope of supply comprises a tape extrusion line with automatic winders as well as a printing line rollFLEX PX and a sack conversion line of the new generation ad\*starKON HX. The conversion line is equipped with the option microSTAR+, which allows for efficient aeration of the sacks' content through finest micro perforation of the coated fabric.

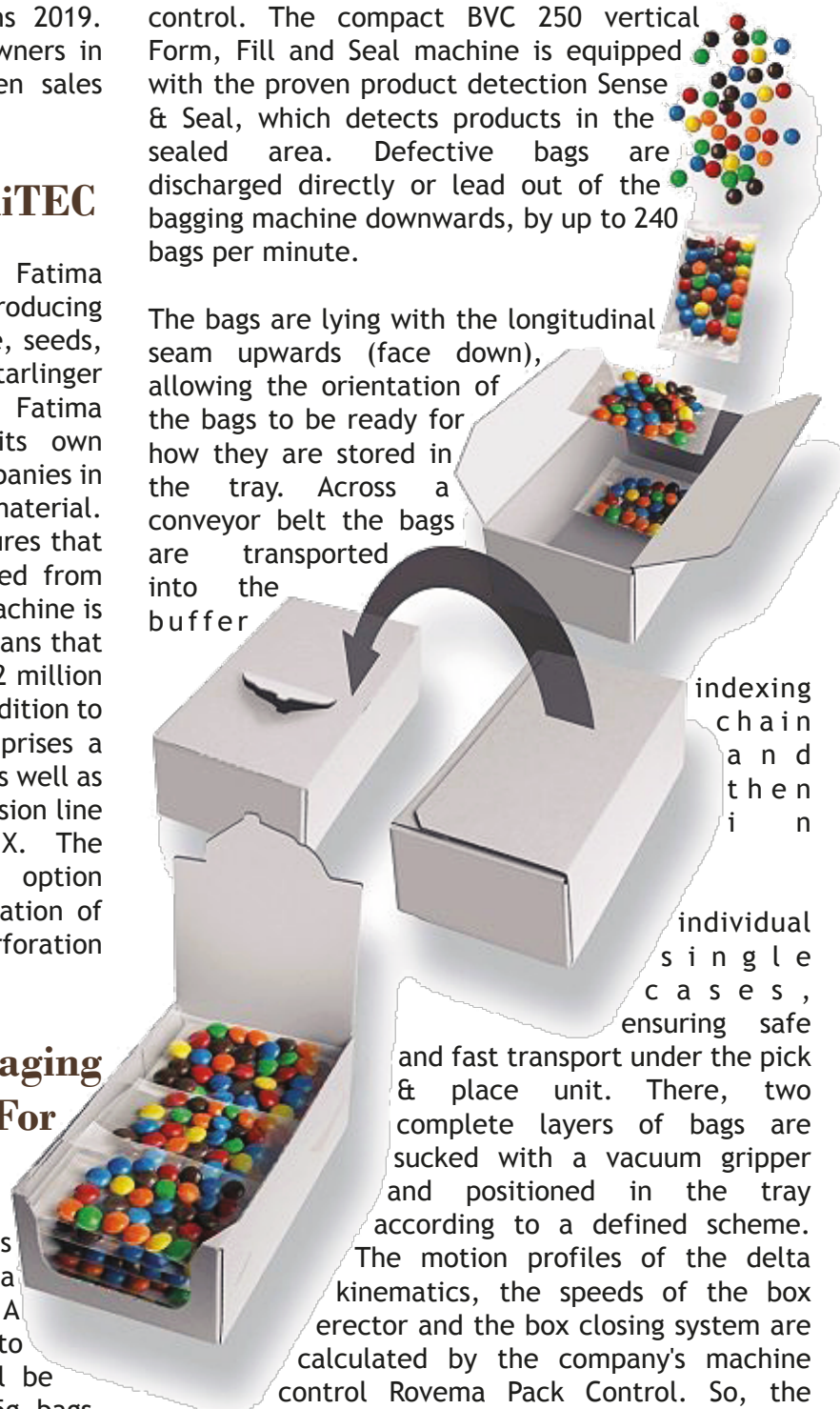
## Rovema Touchpoint Packaging Gives Integrated System For Placing Confectionary At Pos

Rovema manufacturer of packaging machines will be exhibiting at Fachpack 2018 with a sophisticated solution for packing sweets. A typical application for packaging into attractive point of sale display boxes will be shown each containing 12 scaled lying 25g bags. Rovema as Touchpoint for the confectionary industry.

The packaging line will include a high speed vertical Form, Fill and Seal BVC 250 Compact machine with a final packaging system EC, which combines a box erector, a pick & place unit including grouping and a closing unit on a footprint of just 10 m<sup>2</sup>. This shows a compact and complete system in which all components can be operated via the central machine

control. The compact BVC 250 vertical Form, Fill and Seal machine is equipped with the proven product detection Sense & Seal, which detects products in the sealed area. Defective bags are discharged directly or lead out of the bagging machine downwards, by up to 240 bags per minute.

The bags are lying with the longitudinal seam upwards (face down), allowing the orientation of the bags to be ready for how they are stored in the tray. Across a conveyor belt the bags are transported into the buffer



indexing chain and then in

individual single cases, ensuring safe

and fast transport under the pick & place unit. There, two complete layers of bags are sucked with a vacuum gripper and positioned in the tray according to a defined scheme.

The motion profiles of the delta kinematics, the speeds of the box erector and the box closing system are calculated by the company's machine control Rovema Pack Control. So, the individual units are optimally balanced. The packaging process is characterized by an energy-efficient and wear-reduced process, which ensures a high level of product protection at the same time. The finished pack is provided with a tear-open perforation, which turns the transport packaging into a cargo-friendly, high-end display package at the point of sale. Up to 30 units can be produced per minute.

## Success has a name in POLYWEST: XXL

Since 2011 POLYWEST equipped most of the linerboard printing machines worldwide with flexo sleeves up to nearly 3 meter width.

With their industry specific XXL-Sleeves POLYWEST has best solution for linerboard printers.

The excellent price performance ratio has given POLYWEST worldwide market dominance in extra wide sleeves. More than 2.000 XXL-Sleeves have been supplied in the last seven years which perform with 100% success.

Whereas the first extra wide sleeve press supply was in Europe 2011, POLYWEST expanded their market by selling to Asia and the Americas.

"Since 2015 we are the principle supplier in the US-market too", Michael Bormann, Head of Sales in POLYWEST, points out.

Starting with Menasha and later with International Paper in the US, POLYWEST is today principle supplier in the WestRock Group. Regular orders come from USA, Canada and from the sister company GrupoGondi in Mexico. POLYWEST is currently in preparation to supply XXL-Sleeves to Brazil.

"With the next order / equipment we are established on all continents. Wherever you look for big linerboard printing machines which are equipped with sleeves, you will find our XXL-Sleeves: Europe, Asia, North-, Middle- and South America.

And we are well prepared to continue!"

But the XXL-Sleeves perform not only for linerboard but also for PE-films. POLYWEST sold 100 XXL Sleeves to machine manufacturer SALDOFLEX in Italy who sells their machines with POLYWEST equipment worldwide in regular intervals.

"But XXL-Sleeves are only one segment of our product line.

Worldwide, we are the only producer who manufactures all types of sleeves and adapters. We have sleeves with hard or compressible surface, adapters with hard or compressible surface, as well as carbon fibre adapters for pneumatic and hydraulic systems in our portfolio", Michael Bormann ends his comments.



# XXL-SLEEVES MORE THAN 2.8 M LONG

Known Worldwide



[www.polywest.de](http://www.polywest.de)

## FELICITATION

### **SYS TEC Converting & IR Group of Companies**

Congratulate M/s Cherat Packaging on bringing State of the Art Sleeve Storage, Fully automatic Plate Mounter, semi automatic Plate mounter & Plate Washer Machines by SYS TEC Converting.



*-SLEEVE STORAGE*



*-AUTOMATIC PLATE MOUNTER*



*-SEMI AUTO PLATE MOUNTER*



*-PLATE WASHER*

## Annual General Body Of Flexpack Association (South)

Flexible Packaging Association of Converters of Pakistan invited renowned companies from Flexible Packaging Industry for General Body (South Chapter) program ending with Hi Tea in local hotel at Karachi. Mr. Jawed Butt, Co-Chairman of the Association warmly welcomed and shared some highlights to the members regarding work in progress of association. In the meeting lots of issues were discussed which are being faced by the converters industry of Pakistan specially the issue which is being faced by flexible packaging industry from Sindh Environmental Protection Agency, Government of Sindh. Members shared their views, discussed training development programs,

relationship with international associations including the current market prices issues and lastly event of Cricket tournament between Member Companies as a healthy activity. Mr. Jawed Butt also thanked members who attended the program and also appreciated members who have always encouraged and supported the association and the platform by their positive feedback. Mr. Jawed Butt Co-Chairman Mr. Ali Morani Patron in Chief, Mr. Tarique Rehman Mr. Saad Habib, Mr. Yousuf Tinwala & Mr. Shariq Maqbol Elahi Executive Committee Members (South) and 30 member companies participated in the event and shared their views.



## Flexpack Has Its Reservations On Implementation Of SEPA Notices As It Will Have Negatively Impact On Trade And Business

*The Substance Oxo-Biodegradable Is Banned In Europe And Other Countries As It Reduces Shelf Life Of Packaging Products And Is Not Suitable For Food Grade Packaging.*

Flexpack has discussed & consulted the matter at various forums and they all have suggested that Oxo biodegradable plastics are disastrous to the environment and marine life in particular. According to the international reports more than 150 multinational big companies have issued a call for governments around the world to ban biodegradable packaging over concerns regarding the effects of pollution on soil and oceans. Including 150 companies, Nestle, Unilever and Pepsi Co, have recently endorsed a total ban on the material in light of its potentially negative environmental impact. In France, the use of oxo-degradable plastic bags was banned in 2015. However, Oxo-degradable plastics do not degrade into harmless residues, but instead, fragment into tiny shards of plastic that actually contribute to plastic pollution. Currently, it is estimated that the 300 million tons of plastic is produced annually in the world, only 3% of that material ends up being recycled. Oxo-degradable bags can't be recycled and instead, actually hamper the recycling process. Another international report, researchers have disputed this assertion, with a mounting body of evidence showing that oxo-degradable plastics fragment into tiny pieces, including micro plastics. This poses an environmental risk, evidence suggested,

particularly in the ocean. According to this a growing number of business and governments have taken action to restrict the use of Oxo-degradable plastics, particularly in Europe. After France and Spain implemented action in 2017 - the Netherland now, too, has announced plans for a complete ban of oxo-degradable plastics.

According to the recent article Dawn newspaper article which was published on August 2018, highlights the risk of using Oxo-biodegradable bags "Environmentalists are now suggesting the discontinuation of Oxo biodegradable plastic bags, which have been declared disastrous to the environment and marine life in particular. Further in article that clearly showed among the various types of Oxo degradable plastic bags such as the ones that disintegrate after exposure to the sun and the soil, the type that breaks down after reacting with oxygen were introduced by the Pakistan Environment Protection Agency (Pak-EPA) some eight years ago. Flexible packaging industry also said that this material is also harmful of the packaging material and its shell life as used in various consumer goods including food grade packaging. Also potential damages such bag could cause by effecting agriculture, harming marine life and risking public health. FLEXPACK demands to government to review and revise the Sind Prohibition of Non-biodegradable Plastic Products (Manufacturing, Sale and Usage) Rule 2014, in order to align these rules with the amended regulation notified by the Federal Ministry of Climate Changes on July, 6th 2015.



## Company Profile

Jilani Industrial Corporation (Pvt.) Ltd. was set up more than 30 years ago in Karachi as a plastic converting enterprise. With humble beginnings, the company continued to grow and expand and expand based on our principles of unmatched quality, superior customer service, innovative products and dedication to our employees. In due time the company expanded to set up another production facility in Northern region of Pakistan to provide equally good quality with shorter lead times.

In view of company's vision to diversify, rotogravure printing facility was also added to existing capability of flexographic printing services in 2004. Today we provide all sort of plain, printed and laminated reels, films, sleeves, pouches and bags. Moreover, we deal in all sorts of plastic materials including PET,PP,BOPP,PVC shrink, PETG shrink, PE, Aluminum foil etc, depending on the customers' needs and requirements. With three factories today in Karachi and Lahore, we claim to be one of the leading providers of flexible packaging material in Pakistan.

We have opened a world of possibilities with production capability of up to 8 color rotogravure printing, combined with both dry and solventless lamination and versatile bag making machines. Combined with our in-house prepress/design department, and our ISO certifications, we ensure superior products and services to our customers. We take pride in offering our customers with innovative and specialized packaging options. We introduced and popularized PVC shrink labels and sleeves in Pakistan. Today, our name is associated with high quality labels and unmatched service all over Pakistan. We also boast of providing diverse variety in finished bags including 3 side seal bags, zipper bags, stand up pouches, uneven shaped stand up pouches, centre seal bags and 4 side seal bags. Furthermore, we also provide PE shrink wrap films for group packaging. Our superior quality film at competitive prices ensures that you get high yields thus providing better value for money.

We have developed a niche for ourselves by catering to short (1000kg) to very short (500kg) orders also. Our priority remains customer satisfaction, and we ensure that our team goes to all lengths to maintain that. Based on this approach, we boast of a prestigious list of both domestic and multinational clients. These span across many different industries, including beverages (Coca Cola and Pepsi Cola), Textile (Afroze Textiles and Feroze Textiles), Confectionary (Kings Foods and S.S. Foods), Food (Matco Rice and Nauras), Chemical (Clariant and Pakistan Lubricants), Cosmetics (Kohinoor Soap and Mothercare), Pesticides (FMC and UDPL), Paint (Berger and Diamond Paints), Pharmaceutical (Searle and Woodwards) etc.



PVC Shrink Labels



Tri Seal & Standup Pouches



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Box Shaped 4 Side Seal Pouches



Special Shaped Pouches



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