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JANUARY 2019

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Editor:

Veerendra Malik

Years ago when one visited a print expo after four years, one expected to see new developments in some segments of printing industry. Printing technologies changed after many years. Today with the demand for specialty printing increasing, we see new technologies and applications every month. Expos are mushrooming in specialized fields of printing and print finishing.

To keep abreast with these new developments, we need to visit more expos, attend conferences and seminars to update ourselves to get the best out of investments in these new innovations. Just conventional printing is no longer the desired field of work. One has to build in value-addition to print to meet the demand of today's print buyer. A printed product is a silent sales person for a brand and needs to stand out. Hence one needs to keep abreast with new technologies and developments in the trade. What better place to do so than attend expos and seminars.



Associate Editor:

Sunil Jain

Dear Friends,

A very Happy New Year to you and your family.

The most awaited show for the industry, PRINTPACK INDIA 2019 is here.

PRINTPACK INDIA is a 6-day event being held from February 1 to 6, 2019 at the India Expo Centre and Mart in Greater Noida. This event showcases products like Pre-Press, In-Press, Post-Press, finishing, converting, digital and signage and packaging machinery under one roof.

Digital Printing has revolutionized the print & publishing industry over the last decade. Variable data and short-run have been the key drivers for this business. Today, the scale of digital printing has increased and hence increased competition. So now the big question – as a key player, how do you stay ahead in this race? After discussions with my friends in the industry comprising printers, publishers, machinery manufacturers, paper merchants, designers and some end users as well, we came to a conclusion that certain aspects need to be considered in fusion to create a niche product which stands apart from the ordinary.

New technology digital has moved from conventional sizes to larger sizes. The media gamut has increased to a wide range of non-conventional materials including wood, glass, ceramics, non-woven, synthetics, fabrics etc. Conventional papers are paving way for specialty papers. These are surface coated papers which can be termed as print enhancers. Digital UV, foiling, enhancements and aromatic embellishments have been introduced. All these trends are creating quite a buzz in the market indicating that very soon Digital will be the driver in the print & publishing industry.

So, spend more time at PRINTPACK INDIA and try to grasp as much as possible.

DPA has its stall No. K132A in Hall No. 14. Do drop in.

16 "The Way Forward

Pankaj Bharadwaj, Avery Dennison
- Harveer Sahni

19 The Basics of Image Resolution/ Raster Resolution

- A Technical Review

23 Fujifilm India Launches its Second Graphic Arts Demo Centre

- Showcases latest innovation in
Graphic Arts Technology

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Views expressed in this magazine are of the authors and not necessarily of the Delhi Printers' Association.

7 Industry Trends



- Uflex launches new products for pharma packaging
- Numex Blocks invests in second FLEXCEL NX System
- Fusion Print and Pack gets a second Autoprint Repetto 80
- Cosmo Films launches film for food and beverage industry
- BMPA Elects Office Bearers for 2018-19
- Weldon Celloplast to represent Jandali in India
- Association for Okhla printers and providers launched
- Uflex purchases Edale 10 colour FL3 flexo press
- Prakash Labels invests in Edale FL3 to enhance production
- JK Paper to add 1.4 lakh-tonne capacity by FY19
- TNPL's net profit up at ₹6.52 cr
- Asia Pulp & Paper to set up India's largest paper mill in Andhra Pradesh
- Modern Propak to invest in Omet iFlex
- UPM Raflatac's to launch new 'RX' series adhesives
- PackPlus South Is Aiming High!

24 World News



- Eskoworld 2019: the packaging industry event
- KODAK SONORA Plate Green Leaf Award winners announced
- 1000th unit of manroland 700 Evolution rolled out
- Cron establishes branch in Asia to expand overseas reach
- Kodak Sells Flexo Division to private equity firm
- Pantone's announces 2019 colour of the year
- Adobe Reports Record Revenue
- manroland Goss Group acquires GWS Printing Systems
- Heidelberg establishes smart print shop concept



It is needless to mention, as all our members are already aware, that on account of a number of constraints like the ongoing sealing of factories in non-conforming areas and the unprecedentedly huge hike in minimum wages for workers, the running of trade and industry in Delhi has become extremely difficult. As intimated from time to time, DPA has been taking all possible steps to bring some relief to our member printing units by submitting necessary memorandums to concerned authorities.

On the other hand, in the midst of the current grim global economic situation, the Indian printing industry has managed to stay afloat by continuously embracing the latest print technology and thus keeping its growth rate intact. At the same time it is always advisable to make optimum utilisation of one's available funds and the installed machinery. In order to compete in the ever-evolving global scenario through export market, it is incumbent upon our printers to keep on setting standards of quality in all segments of their products. We must keep in mind the age-old maxim of "survival of the fittest" and therefore plan accordingly.

On their part, manufacturers of printing and allied machinery regularly keep their Research and Development departments on their toes for bringing about innovations as well as introducing new features in the existing latest machines. The state-of-the-art machinery is introduced through regular channels of publicity but for effective sales such machinery needs to be displayed in showrooms or better still through live demos in exhibitions which are held in different parts of the world from time to time. Unless exhibited, such innovations cannot benefit the user printers at large. Before investing in such high-cost machinery the buyer seeks an opportunity to have direct interaction with the manufacturers on different aspects of their latest technological advancements. In this respect the valuable role played by national and international exhibitions of printing, packaging and allied machinery is laudable. Leaving aside some of the largest international expos like Drupa, India can boast about its mega shows like PAMEX as organised by AIFMP and PRINTPACK INDIA by IPAMA. The next PRINT PACK is due at India Expo Centre in Greater Noida from February 1 to 6, 2019.

Rajesh Sardana

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Uflex launches new products for pharma packaging

Uflex has launched a portfolio of new products in pharmaceutical packaging that includes fast tear strip foil, PET based cold form blister, child resistant and senior friendly foil, and branding products.

Fast Tear Strip Foil has been developed as a 20-micron pin-hole free soft tempered foil. Offering excellent printing on matt finish with superior readability through multi-color reverse printing design on Special PET film in Special PET/Foil/PE laminates it is produced in house to impart easy tear ability of the laminate without any effort.

The value addition of holography solution with Latentogram imparts brand protection of the pack and maintains the same barrier properties when compared to that of conventional strip pack laminate. This foil conforms to all regulatory requirements of pharmaceutical products and also meets toxicology requirements.

Alu-Alu packaging developed by Uflex is a special polyester film which has replaced the conventional Nylon and PVC while retaining Aluminum making it an indigenous product since both PVC and BON

have to be imported from other countries. For this unique development, Uflex has also been granted a United States Patent recently.

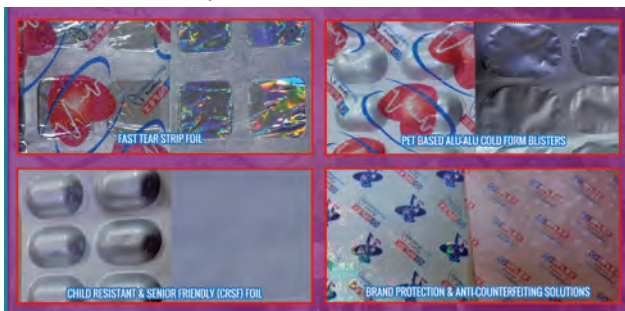
The Child Resistant & Senior Friendly (CRSF) Foils, are available in two types Push-Through and Peel-Push. As the name suggests, it requires some amount of pressure for a child to open it. However an adult or senior can open it easily. This protects unintentional damage to the foil which is common with conventional blister foils which get easily tampered during handling affecting the formulation. CRSF Foils are also commonly used in regulated markets. With this product portfolio, Uflex will be able to bridge the gap which is existing currently.

Under the Brand Identity and Protection Solutions Uflex offers tailor-made Consumer Discernible

Packaging Solutions which provides Unique Brand Identity and top-of-mind medication adherence communication along with highly specialized brand protection packaging technologies.

Amitava Ray, Executive Director, Uflex Ltd. said "Uflex approach to business is to grow and develop consumer friendly products than just be a 'me too' in the industry. This is why we ceaselessly work towards delivering an amalgamation of uninterrupted supplies, quality, service and innovation that are expected in pharma packaging business."

"Fast Tear Strip Foil will prove to be a game-changer for the pharma industry globally and we see a potential growth market of 5000 tonnes annually in India. We are investing in technology, capex and time to raise the bar both in terms of quality and growth" he added.



Numex Blocks invests in second FLEXCEL NX System

Mumbai-based Numex Blocks has opted for Kodak FLEXCEL NX 5080 System for catering to burgeoning demand for high quality flexographic plates

Numex Blocks has confirmed their purchase of a Kodak FLEXCEL NX 5080 system on the second day of Labelexpo India 2018. With the capability to image Kodak FLEXCEL NX plates up to a maximum of 50 x 80 inches in size with the new equipment, Numex aims to cater to a larger base of printer/convertors.

Nitin Patil, Director at Numex Blocks, says, "We believe in investing in the right technologies for today and the future. We are investing in the second Kodak FLEXCEL NX System, this time a Wide 5080, with a view to be future-ready and address the needs of the market."

Sandor Meszaros, Regional Sales Leader at Kodak's Flexographic Packaging Division for the Asia Pacific Region (APR) says, "Numex Blocks is amongst the largest flexo pre-

press tradeshops in the region. As a key player in one of the fastest growing flexo markets of the world, their investment in their second Kodak FLEXCEL NX equipment is testament to the trust they have in Kodak FLEXCEL NX to grow their business sustainably. We are extremely happy to expand our business partnership with Numex Blocks."

The FLEXCEL NX Wide 5080 System allows users to maximize plate making productivity and minimize waste. It brings all the benefits of the KODAK FLEXCEL NX System to print applications with larger form size requirements too.





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Fusion Print and Pack gets a second Autoprint Repetto 80

Gujarat based Fusion Print And Pack engaged in Offset printing and packaging has installed a second Autoprint Repetto 80 die-cutting machine.

Investing in two Autoprint Repetto 80 Die Punching Machines over the last two years time has helped us save considerable labour and time.

Kalpesh Lal, Director of Fusion Print and Pack says “Earlier we were running six semi automatic die cutters which involved so much labour as we required a production of two million impressions a month. With its zero gripper wastage, Autoprint’s Repetto 80 Die Punching Machines have helped us minimize wastage of boards and increase production. Their product quality, training of our operators and quick service has helped us tremendously in the smooth functioning of our business.”

“Investing in rigid boxes making machines has helped us grow our business both in textile and cosmetic products. With our creation

and new developments for gift and cosmetic boxes we are well appreciated by all our customers” adds Kalpesh.

Fusion Print has plans to invest in Roto gravure printing in the next financial year to meet the demand from existing and new customers for labels and pouches.

Kalpesh is happy with the sales and service from Autoprint who have been very prompt in providing services. He goes on to say “As of date these new installations have met all our expectations and we are sure that it will help us in the days ahead to increase our customer base and grow our business faster. We can now supply quality material faster to our clients which further can help them meet the needs of their end customers. Thus it’s a win-win situation for everyone in the value chain. To summarize our investment in the Autoprint Repetto 80 Die Punching Machine in one simple sentence “Grow and Succeed with Autoprint”



Cosmo Films launches film for food and beverage industry



Cosmo Films has launched a sterilizable conduction sealing film for wad and lidding applications for PP and PE containers.

This film can withstand high temperatures during the sterilization process, which is used to increase the shelf-life of the product.

It is a clear, one side corona treated, and other side heat sealable, film. The film offers seal integrity and improved convenience to the consumers as it is easy to open and peel cleanly without splitting, according to Cosmo Films. This film is safe for direct food contact.

Pankaj Poddar, CEO Cosmo Films said: ‘This is an award winning film especially developed keeping in mind the dairy industry. The

uniqueness of the film lies in its endurance to withstand high temperatures during the sterilization process without affecting its seal integrity. We are confident of the success of this film and the response so far has been extremely encouraging.’

The film can be used as a monolayer or as a sealant layer in a laminated structure with substrates like aluminum foil. It can be used in roll or pre-cut form, after lamination with other substrates, based on the requirements of the customers.

The film is used primarily in the dairy industry for flavored milk, the food and beverage segment for juices and energy drinks, bakery products, pharmaceutical industry, agro chemicals and cosmetics.

BMPA Elects Office Bearers for 2018-19

Bombay Master Printers Association elected its Office Bearers for the Year 2018-19.

Nitin Shah	-	President
Iqbal Kherodawala	-	Vice President I
Milap Shah	-	Vice President II
Faheem Agboatwala	-	Hon. Secretary
Tushar Bhotia	-	Hon. Treasurer



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Weldon Celloplast to represent Jindali in India

Jindali Packing Machinery, established in 2003 in Chao'an county of China has chosen Weldon Celloplast Ltd as their partner to promote sale of their range of post printing flexible packaging and finishing equipment. Products offered by them include Shrink label/Sleeve Seaming machine with plateless system, Shrink Sleeve inspection machine and Shrink Sleeve cutting machine.

Jason and William owners of Jindali say, "Weldon is a very visible and important company in the world of labels. We are excited by this alliance. We look forward to service the Indian label converters with their support".

KD Sahni, Managing Director Weldon Celloplast says "Shrink sleeve labels is a fast-growing segment. We are committed to support the printing and packaging companies in achieving

excellence. Post our association with Jindali we will be able to offer cost effective converting equipment to shrink sleeve manufacturing companies."

Weldon Celloplast Limited, New Delhi represent globally renowned manufacturers of printing equipment, tooling, inspection and waste management systems besides offering tamper evident security label materials.

Association for Okhla printers and providers launched

More than 120 commercial and digital printers, and machine suppliers from the Okhla region in South Delhi have got together to form the Okhla Printers and Providers Association (OPPA).

Ashok Agarwal has been elected as the first president of OPPA, while Vinay Baveja and Ashwani Thapar have taken charge as the vice presidents of the association. Kamal Malik of Printology will discharge his duties as the general secretary of the new association. The evening also saw the felicitation of the association's two new joint secretaries – Gurpinder Singh and Akhil Chopra. MN Pandey has taken charge as the treasurer of the association.



MN Pandey of Avantika Printers said, "OPPA will provide a number of benefits to its members. The association will perform activities that would be unduly costly or time-consuming for an individual company to perform by itself." Pandey informed that 125 members have already registered with

the association.

Businesses in Okhla had been facing numerous problems related to vehicle parking, minimum wages, encroachment etc. With the start of the new association, the members believe that a lot of these problems would be resolved in a strategic way.

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Double installations for Edale Uflex purchases Edale 10 colour FL3 flexo press

As an existing Edale customer having already purchased an Edale around 6 years ago, Uflex have once again invested in Edale, this time with a 10 colour 350mm web width FL3 flexographic press including IST UV drying system including 3 hot air dryers, motorised print impression, anilox pressure and cross register control system, a rail mounted peel and reveal module and a vacuum delivery table.

Edale's Sales & Marketing Director Darren Pickford commented, "This new press order from Uflex is a testament to Edale's continued commitment to the Indian



market and is a valued addition to our growing machine install base within the region. We are proud that a company of the size and stature of Uflex values the support and quality of equipment offered by Edale, we are excited to continue working with them and look forward to being part of their

continued growth"

Uflex acquired the FL3 to produce security labels and it was important to find a solution that would deliver sustained quality and ensure high reliability. Edale's unique experience in vacuum collating conveyors was a huge benefit when making a selection.

Indore Master Printers Association Office Bearers for 2018-19

Swadesh Sharma
President

Pritesh Jain
Vice President

Shyamkant Jha
Secretary

Abhishek Chajlani
Jt. Secretary

Amay Goyal
Treasurer

Arvind Badjatia
Immediate Past President

Prakash Labels invests in Edale FL3 to enhance production

Noida based Prakash Labels has invested in the Edale FL3 for production of self-adhesive labels with cold foil, unsupported films and also some board materials for pharmaceutical industries.

Dinesh Mahajan, Managing Director at Prakash Labels, commented, "After visiting the Edale factory we were extremely impressed by the machine capabilities and the fact we could run various substrates with ease. The Edale team were very professional and worked hard to suit all our requirements."

Darren Pickford, Edale Sales and Marketing Director, said: "We were up against some strong competition and Prakash's

Labels testing procedures were very demanding, so this was a true vindication on the FL3 performance and also the dedication from Edale's staff in satisfying Prakash during the full and thorough testing.

"Prakash is seen as an industry leader and, with its investment in a new building and infrastructure, will give Edale a truly outstanding reference site in North India. Whilst our competitors continue to offer older technology our commitment to only offering latest designs and automation to a fast-growing market has seen the Edale brand recognized as an industry leader and this order only goes to prove this is the

right philosophy."

The press is a fully automated, 430mm-wide, 10-color FL3 with a label and film pack. The FL3 also features Edale's AiiR technology for autonomous print register control, which includes automatic register set-up and continuous register monitoring in X and

Y directions. The machine also includes Edale's new EZ Die quick change converting system that facilitates a full tool change in less than 60 seconds.

The press, due to be installed later this year, has been sold by Printer Supplies who represent Edale in India.



JK Paper to add 1.4 lakh-tonne capacity by FY19

JK Paper Ltd is planning to increase its capacity from 4.55 lakh tonnes to around 6 lakh tonnes by next financial year (FY 19).

As per company information the additional capacity of 1.38 lakh tonnes will come from the plant in Sirpur (Telangana), where it aims to start production by April 2019.”

The plant will also help the company venture into the colour paper segment for the first time. According to the report, the BSE-listed company currently manufactures three types of paper – coated, uncoated and packaging board. The

uncoated segment generates the highest revenue.

Apart from capacity expansion in Sirpur Paper Mills, the company will further increase its capacity by adding 1.5 lakh tonnes in the next two years. This

expansion will focus on the packaging board vertical.

The company registered a net profit of ₹109.57 crore for the quarter ended September 30, 2018, a sharp rise from ₹56.63 crore in the previous year period.



Reminder for Annual Subscriptions

Members of the DPA, who have not paid their subscription dues for the year 2018-19 are requested to do so urgently. Members who's dues are pending for the year 2017-18 are reminded that non-payment of dues for two consecutive years will result in termination of membership of the Association.

In case members want to avail of Life Membership they can do so by a one time payment of an amount of ten years subscription and avoid any increase in subscription at a later date.

TNPL's net profit up at ₹6.52 cr

Tamil Nadu Newsprint and Papers Ltd (TNPL) has reported a net profit of ₹6.52 crore for the quarter ended September 30, 2018 when compared with a net loss of ₹13.2 crore in the year-ago period.

Amid higher costs, better realisations and higher volume have helped the company post profit as against a loss in the prior year quarter.

The company reported profit before exceptional item and tax of ₹10.15 crore as against a loss of ₹38.16 crore

in the same period last year.

Revenue from operations saw a sharp growth of 87 per cent for the quarter at ₹1005.7 crore when compared with ₹537.94 crore in the second quarter of previous fiscal on account of strong demand in the market.

Paper production during the second quarter was 1,06,749 tonnes as against 87,164 tonnes. Packaging Board production was 47,487 tonnes against 28,659 tonnes in the corresponding quarter of previous year.

Asia Pulp & Paper to set up India's largest paper mill in Andhra Pradesh

Pulp and paper giant Asia Pulp & Paper Group (APP) is setting up not just India's but probably the world's largest paper mill in Ramayapatnam in Andhra.

The projects will be coming up in the Prakasam district of the state. The Asia Pulp & Paper Group will make an investment of ₹24,000 crore in its pulp and paper manufacturing unit at Ravuru in Gudluru mandal of Prakasam district. It is the single biggest FDI so far in the state, perhaps in the country in recent times.

The project with a capacity of five million tpa will be the largest unit of the Asia Pulp & Paper Group at a single location.

The business operations of the company are spread over 120 countries across the

world. Its total production capacity is 18 million tpa.

The Asia Pulp & Paper Group's unit in Prakasam district will come up in 2,471 acre of land and generate 4,000 direct and 12,000 indirect jobs. It will be completed in two phases.

Phase-I of the project is expected to be completed along with Ramayapatnam port, which will be constructed by the Andhra Pradesh government at an investment of Rs 5,000 crore. The company has been allocated two out of the eight berths of the port as captive berths.

The Asia Pulp & Paper Group's management has been asked to commence operations in 18-20 months instead of the proposed 30 months.



Modern Propak to invest in Omet iFlex

Jammu and Kashmir (J&K) based printer, Modern Propak, has opted for a 370mm wide 10-color Omet iFlex press exhibited at Labelexpo India 2018.

A bottle manufacturer, this is company's first investment in a flexo press to cater to its existing customers.

Raj Kunwar S Dua, proprietor at Modern Propack, said: 'The press will be shipped to the factory in November right after the show. Equipped with chill drums, peel and seal unit, cold foil, delam, relam, web turnbar, sheeter conveyor, and two die-stations, this kit will mainly be used to print pressure-sensitive and shrink sleeve labels to cater



to agro-chemical and liquor market segments.'

Kanwardeep Sahni, managing director at Weldon Celloplast, said, 'Modern Propak is a new entrant in the labels industry but has been a packaging player. This is an extension of their

product portfolio and they wanted the best equipment in the market. This is the fourth Omet iFlex that Weldon Celloplast will install in India. The first three have been running at Huhtamaki Webtech, Insight Graphics, and Orianaa Decorpack.'

UPM Raflatac's to launch new 'RX' series adhesives

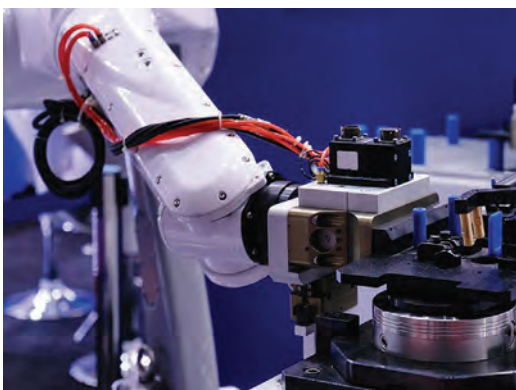
UPM Raflatac is introducing a new solvent-free RX adhesive family for durable labeling applications. The RX family is made up of two high-tack products: RX15 for polar surfaces such as metal and glass, and RX18 for non-polar surfaces such as PP and PE plastics. As these adhesives have been specially developed for these

specific substrates, they ensure the highest bonding and durability performance - even in the challenging conditions experienced in automotive, industrial, and consumer electronics applications.

Both materials in the RX family work hard to ensure that vital information stays in place for the entire lifetime of the label. These extreme-strength adhesives withstand extreme conditions and are resilient to chemicals, and UV light. Furthermore, this high performance is achieved without solvents, making RX adhesives a safer, more sustainable choice for durable

labeling applications.

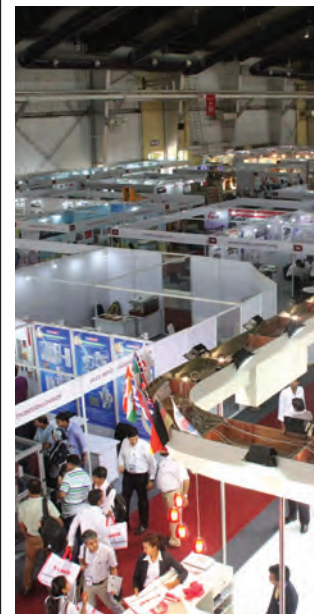
"The adhesives in our new RX product family provide extremely strong and enduring adhesion without resorting to solvents, which not only reduces the environmental impact of producing the labels, but also makes them a more ecodesigned choice for product labeling," explains Jouni Iiskola, Segment Manager, UPM Raflatac. "With RX15 for polar surfaces like metal and glass and RX18 for non-polar surfaces like PP and PE plastics, a targeted adhesive can be chosen according to the substrate, leading to excellent product performance, extreme bonding, and life-long durability."



PackPlus South Is Aiming High!

PackPlus South, along with PrintFair and SupplyPlus South, is happening from 10-13 April 2019 at Bangalore International Exhibition Centre, Bengaluru. With more than 125 companies already on board, South India's largest packaging exhibition is ready to set new landmarks!

The rising opportunities in packaging industry demand new innovations and also a platform to present these products and services. PackPlus South comes up as a preferable platform for several significant players from the industry. Attracting exhibitors from all over India, the Show will host several product launches and LIVE running demo of machines from the packaging, printing, converting, processing and supply chain industry.



“The way forward”

Pankaj Bhardwaj, Avery Dennison

The Indian self-adhesive label industry has not only transformed in terms of printing and converting processes but has also evolved tangentially incorporating various technologies to label the products. The evolution is ongoing and keeps presenting immense challenges to label printers, suppliers and equipment producers. An industry

focused primarily on its self-stick capabilities now has moved into diversified label production, decoration, application and dispensing methods. Label is not merely a sticker but a branding tool that can be created and applied in various ways as perceived by the imagination of the Brand managers and marketing professionals. From the mid-1960s when

stickers in India started being produced manually by screen printing, the production processes used have undergone a sea change. The printing process evolved from flatbed letterpress, to rotary flexo and then to combination and hybrid printing. These were just the changes that happened either in terms of label substrates varying from paper to filmic or changes in printing methods, may they be letterpress, flexo, screen, gravure, offset, digital or combination. In the new millennium the tangential evolution commenced. Shrink Sleeves providing 360 degrees label space on product came in however still due the sheer inertia of growth, the self-adhesive labels continue to grow. Environmental concerns are bringing in need for thinner liners in self adhesive to reduce the quantum of waste going to landfills, this



is also leading to development of linerless labels. Digital labels are catching up fast but the bigger challenge it appears, will come from digital printing and decoration direct on products eliminating need for label substrates, liners and adhesives.

At the last label expo India 2018 the author had a one to one discussion with Pankaj Bhardwaj Senior Director and General Manager at Avery Dennison India Pvt Ltd for his views on the way forward for the label industry. He feels that there is nothing to worry as while the consumer story is intact, and decoration of labels is in



intact, at Avery Dennison, we are still able to convert users from wet glue to pressure sensitive adhesive labels, achieving a stable double-digit growth on an ongoing basis. According to him changes need to come from two directions and have started coming in, the first is decoration technology which comes with increasing the means of producing such happy and complex labels. Technically advanced labels that are the real products like RFID labels and labels with special features are needed to be developed. The second change according to Pankaj is the need to be prudent in prices and focus on the product mix. These two changes are the way forward, he feels. Stagnant price of labels with reducing margins does impact the bottom line of printers negatively. It is thus that, currently; offering the right product at the right price is very important.

When questioned about the challenges emanating out of labels evolving as mentioned in the first paragraph herein, he does agree that linerless labels



have come but their extensive growth will happen only when they are technically and commercially viable. RFID surfaced during World war II, it is only now, in the last 3-4 years that it is becoming viable. Avery Dennison is aware of the changes and continues to offer technically advanced products even for linerless labels. They have also invested in a venture producing liquid displays, Printed electronics and will diversify into technically complex products. They are a Pressure Sensitive Adhesive (PSA) label and graphic material producers. While PSA remains their basic offerings, yet they also sell non-PSA products. When

asked about the impact of direct-on-product digital printing, he does agree it may affect the usage of self-adhesive labels but there is time for evolution to happen and by then the existing market will also have grown and alternatives developed so the technologies will evidently coexist.

Witnessing the success of labelexpo India and the number of label presses being invested in, he was asked if he felt India was booming in labels. In response he says the present growth of course is positive and is well reflected if we consider Unilever as a barometer, they have reported double digit growth for three quarters in a row. This does indicate a growing demand for labels and packaging. However, he feels this buoyancy is the residual effect of the negative impact on demand due to demonetisation and imposition of GST last year. It created a void that is being compensated by an increased demand this year. Commenting on Labelexpo he said. "It is an important show, here we get to see a lot of technology and in which direction India

is moving." He added that labels as they are being produced now calls for increased capital investments on a regular basis. There is now an evident awareness of environmental issues which indicates that we are moving in the right direction. It is also an imperative that while expanding we make the business model more sustainable. "Surprisingly there is a lot happening at the bottom of the triangle" he said referring to the smaller printers indulging in moving up the value chain. The smaller producers were until recently dependent on pre-gummed sheets printed by offset, old flat bed letterpress machine or even screen printing. These printers are now installing flexo presses procured either from Indian manufacturers of presses or Chinese presses or used flexo presses, providing the growth impetus to the label industry.

When questioned that the industry has seen the top local Avery Dennison management in India move in a typical fashion. Raj Srinivasan, Anil Sharma and now Pankaj, all started with domestic responsibilities and were then moved out on to global responsibilities. He responded, "Avery Dennison is a great place to work with. It is a dynamic company that has recognised the talent from India. They are expanding their business in APAC region and globally utilising this talent effectively."

Author: Harveer Sahni Chairman Weldon Celloplast Limited New Delhi.





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The basics of image resolution/raster resolution

Nowadays, data handling is playing an increasingly important part in the workflow of a printing house. The staff member must be able to create the print data without any error in order to achieve a given quality in the end product. A crucial factor in this context is that he/she must know the basics of image resolution, image depth, the conversion from a pixel image to a separate raster image and the resolution of the imagesetter.

First of all, an image on the monitor generally consists of many pixels. The dimensioning of the image is dependent on the number of pixels in terms of height and width.

In our example, the image is 3008 pixels wide and 2000 pixels high. The number of the existing pixels depends on the resolution of the camera or scanner. The higher this number, the more pixels can an image contain.



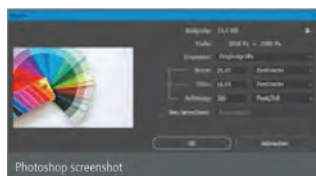
In everyday speech in prepress, people talk of a minimum image resolution of 300 ppi. However, this value must always relate to a specific image size. Our exemplary image has an image resolution of 300 ppi in an actual image size of 25.47 cm x 16.91 cm.

If you assumed, for instance, a resolution of 200 ppi, the image would have an actual image size of 38.2 cm x 25.4 cm with the existing pixel number of 3008 x 2000 pixels.

Image size:

3008 pixels: 300ppi=10.03 Inch
 10.03 ppi x 2.54 = 25.47 cm
 2000 pixels: 300ppi = 6.67 Inch
 6.67 ppi x 2.54 = 6.91 cm

The minimum image resolution required in offset printing depends on the raster frequency in printing and the quality factor. Here, the motto is: "The resolution should be as high as necessary." An excessively high image resolution increases the data volume as well as the computing time, whereas it does not improve the quality since the resolution during the subsequent printing process conforms to the pre-set screen



ruling. When the image resolution is too low, this may produce jaggies and images with a coarse resolution.

Minimum image resolution = Screen frequency x QF

QF= quality factor = 2 (colour images)
 = 1.5 (grey scale images)

Example: Four-colour offset printing 60-line screen (152L/ Inch):

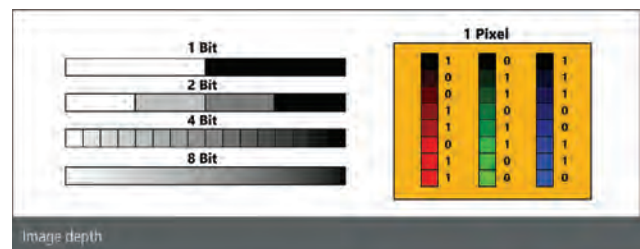
Minimum image resolution
 = 60 L/cm x 2.54 x QF 2 = 304.8 ppi
 = 70-line screen = 355.6 ppi
 = 80-line screen = 406.4 ppi

Therefore, generally speaking, a minimum image resolution of 300 ppi has established itself in every-day routines with data. The tolerance range in practice is approx. 75-150% of the calculated minimum resolution. For web applications, the standard is still at least 72 ppi. This value, however, is still based on the lower output resolution of older output monitors. In large-format printing, too, the minimum resolution can be reduced to 150 ppi or less depending on the output format and the viewing distance.

Colour depth

The colour or image depth specifies how much information is hidden behind a pixel. A bit is the smallest data unit and describes exactly two states, i.e., dot or no dot. The higher the number of bits, the more different grades can be represented per colour. Normally, images are encoded with an image depth of 8 bit. This means the codes 1 or 0 eight times per pixel, i.e., in total 2^8, hence a palette of 256 different colours. For instance, for strong image corrections in photography, images can also reasonably be used with an image depth of 12 or 16 bit in the RAW data format.

So, in the RGB colour space, 3 channels are encoded with 8



bit each. This sum is equivalent to 16.7 million different colour coding possibilities. Since different encodings may produce the

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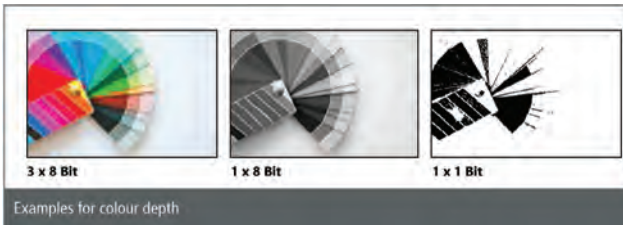
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same colour, this is only an indication of what is possible from a technical point of view, not how many different colours can in fact be represented in a colour space. In the CMYK colour space, there are presumably 16.7 million colours, since, according to the subtractive colour mixing, only the colours CMY are responsible for the colour definition. Black is only added for black generation and does not produce any new colours.



From the pixel image to the printing screen

Following prepress, the pixel image is separated in the RIP and converted into screen dots. Now, the kind of dot, the dot shape, the screen ruling and the screen angle are stored. The conversion from pixels to screen dots above all depends on the pre-set screen ruling and the resolution of the imagesetter. The screen ruling is specified in lines per cm (L/cm) and/or lines per inch (lpi).

The pixel images in the CMYK colour space with an 8-bit colour depth, i.e., with a storage requirement of 4 x 8 bit equalling 8 byte per pixel, are converted into four different 1-Bit-Tiff data in the RIP. This means, a separate Tiff file with an information depth of one bit, i.e. dot or no dot, is created for every colour and/or printing plate. Depending on the tonal value of the pixel, the dot size (AM) and/or area coverage is generated. The smallest unit that can be exposed in an imagesetter is a single recorder element (1 Rel). An imaged recorder element is called dot. The dot is surrounded by an elementary square which is composed of 16 x 16 Rel, i.e. 256 Rels, in the case of a colour depth of 8 bit. The higher the pre-set screen width, the more lines are on one centimetre (inch) and the smaller is the elementary square. However, this also means that the imagesetter should have an adequately high resolution in order to be able to reproduce smaller Rels and/or elementary squares.

Imagesetter resolution: Screen width x (number of grey scales)

- 60 L/cm (152 L/ Inch) = 2540 dpi min. imagesetter resolution
- 70 L/cm (178 L/ Inch) = 2845 dpi min. imagesetter resolution
- 80 L/cm (204 L/ Inch) = 3252 dpi min. imagesetter resolution

If the imagesetter resolution for the pre-set screen width is too low, discontinuities of hues may occur during the imaging process. In the printing industry, images with a depth of 8 bit,

i.e. 256 reproducible grey scales, are absolutely sufficient in terms of quality. With a higher image depth, the required imagesetter resolution would rise extremely.

A practical example:

60-line (152 L/ Inch) raster in offset printing / 8-bit colour depth

60 L/cm x (256) = 1000 imagesetter pixels / cm
= 2540 dpi minimum imagesetter resolution

10% tonal value = 10% of the 256 Rels per elementary square
= 26 exposed Rels = **26 dots**

Elementary square = 10 mm : 60 dots
= **0.166 mm grid constant per dot**

= 0.166mm x 0.166 mm = 2.77 mm²

Dots per mm = 1 mm : 0.166 mm = 6 dots per mm

Rel size = 1 cm : 60 L/cm : 16 Rel = ~ 10 µm/Rel

In our example, the result is a ten percent tonal value from 26 dots, i.e., 26 exposed Rels. The 16x16 Rels are spread on an area of 2.77 mm² per elementary square. The result is a size per Rel of approx. 10 µm in the AM screen. For an FM screen, approx. 10-20 µm per dot are needed. This means that the FM screen would also be possible with an imagesetter resolution of 2540 dpi. The human eye distinguishes from a viewing distance of 25 cm just 3 dots on one millimetre. Therefore, at least 6-7 dots should be spread in sheet-fed offset printing and in newspaper printing at least 3-4 dots per mm. The same quality grading is also used in digital printing. An inkjet printer with a resolution of 1440 dpi and a 10x10 matrix, for instance, reproduces 5.7 printing dots per mm. This is equivalent to more or less the quality of photo-realistic offset printing.

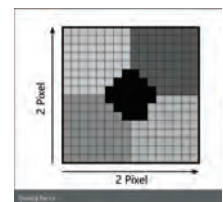
Quality factor

If 1 pixel were directly converted into one printing dot (RIP) and, vice versa, directly into one pixel (scan), the so-called sampling and/or scanning errors would occur due to the Nyquist-Shannon-sampling theorem, which prevents a 1:1 conversion. Due to the screen angles and/or sampling errors, ragged lines and/or jaggies will occur after screening.

Therefore, what is needed in the scanning process and in the RIP is still

Quality factor (sampling factor) 2!

This means that within a specific frequency the image is scanned twice in order to get four pixels and that during the conversion from the pixel to the printing dot a screen dot consisting of 4 pixels is produced. The tonal value information of 4 pixels is used to calculate a medium value and then to determine the equivalent size of a screen dot. The tonal values differ depending on the number of exposed dots. Due to the high computing performance, the quality factor can be reduced to 1.5 in practice. A quality factor of more than 2 does not contribute to an improvement in quality.



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Fujifilm India launches its Second Graphic Arts Demo Centre

Showcases latest innovation in Graphic Arts technology

Fujifilm India Private Limited, today, launched its Second Graphic Arts Demo Centre in Gurugram. The unique Demo Centre has been designed to demonstrate Fujifilm India's latest innovations in graphic arts technology and will give a first-hand experience of the company's wide-format printing prowess. This is the second such facility in India, the first one being located in Mumbai.

The Demo Centre will house Fujifilm's latest version of Acuity LED 3200R and Acuity EY wide format printers. These super-wide printers with LED UV technology, can print on a range of rigid and flexible media for different types of application.

Commenting on the occasion, Haruto Iwata - Managing Director, Fujifilm India Pvt Ltd., said "The objective of opening a Demo Centre is to give a live experience of our printing products to our customers as 'Seeing is Believing'. With our world-class printing technology, we are committed towards providing the best user experience. Our Acuity range of printers has been a success with their speed, quality and precision



in work. Moreover, they are energy efficient and much kinder to environment. We look forward to add more products to our Centre going forward."

SM Ramprasad, Head-Graphic Arts Business, Fujifilm India Pvt. Ltd. added, "We want our customers not just to experience our products, but to experience the complete application which can create lasting impact for their brands in the sign and graphic communications. Also our customers can see for themselves the value that our solutions can bring to their business. We are confident that the Gurugram Demo Centre will provide benchmark levels of customer and ownership experience and benefit them in taking a more informed decision about our products."

The demonstration center is part of Fujifilm India's aggressive expansion plan as the company is targeting double-digit growth for its business, of which the Graphics Arts segment is a key driver for growth. The company has already crossed 100 units of Acuity Installations in India, selling almost five to six units per month. It is now targeting doubling its current installations on the Acuity range with more innovative products with focus on tier 2 and tier 3 markets as well.

The Acuity range of printers has been a success with their speed, quality and precision in work. Moreover, they are energy efficient and much kinder to environment.

The new Acuity LED 3200R can produce quality super-wide display and exhibition graphics in the most cost-effective way. With

low energy LED UV curing technology, the Acuity LED 3200R delivers excellent production efficiency with impressive productivity. Its specially formulated Fujifilm Uvijet inks can print on a wide range of display materials.

The flatbed Acuity EY, on the other hand, is a true breakthrough in wide format UV digital imaging technology from Fujifilm, offering the perfect combination of near photographic print quality, production output and investment cost. With Uvijet inks the Acuity EY can print on to a broad range of rigid and flexible PoP materials up to 48 mm thick and the white ink option provides an opportunity to print high value materials like wood, metal, clear and coloured products.

At the centre, visitors can witness live demonstration of the machines and can have interactive sessions with our dealers. This is the second Demo Centre in India that Fujifilm is opening in Gurugram after Mumbai. The centre will also serve as a training ground for the company's existing customers, providing provision for testing new substrates.

Eskoworld 2019: the packaging industry event

EskoWorld 2019 will feature “Packaging Connected,” bringing together the packaging industry, both suppliers and brand owners.

This annual event is one of the industry’s most important events of the year where Esko fans harmonize and collaborate on accomplishments and

obstacles, enhance their knowledge of Esko solutions, and share and learn industry best practices. Delegates will get to see and hear where the industry is headed, get a sneak peek into Esko solutions roadmaps. Esko and its partners will also share their thought-provoking vision of the future of the industry in a half day session.

It will be an exhilarating combination of presentations, live product demos, background movies, complemented with an interactive debate between market leading technology suppliers and yourself in the audience.



KODAK SONORA Plate Green Leaf Award winners announced

Kodak, a global leader in developing environmentally sustainable printing solutions, today announced the 2018 KODAK SONORA Plate Green Leaf Award winners, which includes 13 printers from around the world. The program, now in its sixth year, celebrates printing industry partners who are leaders in adopting sustainable practices and in offering their customers eco-friendly options for their printing needs.

The 2018 winners are: Artes Gráficas Sagitario (Bolivia); Presse-Druck- und Verlags-GmbH (Germany); Blackmore Group (UK); Colour King (South Africa); PT. Gelora Aksara Pratama (Indonesia); Hebei Xindong Printing Co. (China); Leanin Tree (US); Mitchell Press (Canada); The Profeather Printing Co., Ltd. (DongGuan) (China); SRB Printing (South Korea); Stuff New Zealand (New Zealand); Toyokuni Printing Co. (Japan); Wijeya Newspapers (Sri Lanka).

Award entrants were judged on a range of criteria, including management practices to improve energy and water efficiency, participation in local community sustainability initiatives and the use of eco-conscious materials and supplies. All submissions are reviewed with scores determined by a panel of Kodak judges.

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1000th unit of manroland 700 Evolution rolled out

The one thousandth printing unit of Roland 700 Evolution rolled off the assembly line at the Manroland Sheetfed headquarters in Offenbach, Germany since the first Evolution press was commissioned at Samson Druck, Austria.

This was for a six colour double coating machine with a wide range of accessories, scheduled for installation at the premises of Wavre based Belgian packaging printer Impritex.

Since its first installation in early 2015, the Roland 700 Evolution has been hailed for technical innovations, including SPL (Simultaneous Plate Loading) which allows for cleaning of blanket and impression cylinders during the plate changing process, while the newly developed PPL (Power Plate Loading) delivers automated coating plate change to make the changeover process even

faster and more user friendly.

Alongside many technical innovations, Manroland Sheetfed has also provided the pioneering ProServ 360° service partnership package for all 700 Evolution owners. For 24 months after installation this maintenance contract provides periodic inspections, remote check ups and machine maintenance,

accompanied by performance analysis and information on how to exploit perceived improvement potential.

A thousand Evolution printing units delivered across more than 35 countries and to a variety of market segments, shift models and application areas is ample evidence that the 700 Evolution is the ideal product for its market.



Cron establishes branch in Asia to expand overseas reach

Cron has established a branch in Malaysia as it seeks to expand its reach in overseas markets.

Cron Asia is located in Serdang printing industrial park, Kuala Lumpur. Here,

Cron demonstrates its product portfolio, intelligent printing system, and supporting services including pre-sale, sale, after-sales training and technical support.

Cron claimed EZC can help converters save paper, ink and time, and improve production efficiency.

On-site demonstration of EZC during the opening of Cron Asia was welcomed by customers from Thailand, Indonesia and others in Southeast Asia, some of whom signed on the spot.

Cron Asia will cover South Asia, West Asia and Southeast Asia to further expand the company's overseas business jointly with Cron operations in Europe and the Americas.

The CRON EZC intelligent printing system is a digital ink supply control system. Through standardization of file design, pre-press process, intelligent platemaking and the printing process,



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Kodak Sells Flexo Division to private equity firm

Kodak has sold its flexographic packaging division to a private equity firm for up to an estimated 390 million USD.

“This transaction is an important turning point in our transformation and is a significant, positive development for Kodak,” notes Jeff Clarke, CEO of Kodak. “The sale of the Flexographic Packaging Division unlocks value for shareholders and strengthens our financial position by providing a meaningful infusion of cash which allows us to reduce debt, improving the capital structure of the company and enabling greater flexibility to invest in our growth engines.”

Kodak remains committed

to the print industry and delivering products and services which meet the evolving needs of printers. Following this transaction, Kodak will continue to focus on the demonstrated growth areas of SONORA environmental plates, enterprise inkjet, workflow software and brand licensing. The company is well-positioned for the future by leveraging these growth engines and continuing to maximize value in commercial printing, film and advanced materials.

The transaction is expected to close in the first half of 2019, subject to the receipt of required regulatory approvals and satisfaction of closing conditions.



Under its new ownership, the business will have the same organizational structure, management team and growth culture that has served Kodak’s Flexographic Packaging Division well in recent years. Chris Payne, who has served as President of the Flexographic Packaging Division for the last three years, will lead the new company as CEO.

Adobe Reports Record Revenue

Adobe reported financial results for its fourth quarter and fiscal year 2018 ended Nov. 30, 2018.

In its fourth quarter of fiscal year 2018, Adobe achieved record quarterly revenue of \$2.46 billion, which represents 23 percent year-over-year growth. In fiscal year 2018, Adobe achieved record annual revenue of \$9.03 billion, which represents 24 percent year-over-year growth.

“Adobe achieved record revenue of greater than \$9 billion and delivered outstanding earnings performance in fiscal 2018,” said Shantanu Narayen, president and CEO, Adobe. “In 2018 we made significant investments across our product portfolio, entered new markets, and made strategic acquisitions which we believe will fuel continued top and bottom-line performance.”

“We finished the year strong with record results across the board, meeting or exceeding all of our annual and quarterly targets which did not include Marketo,” said John Murphy, executive vice president and CFO, Adobe. “We’re excited to add Marketo and the expanded market opportunity it provides. We look forward to delivering strong revenue growth, accelerating earnings growth and healthy margin expansion during fiscal 2019.”

Pantone’s announces 2019 colour of the year

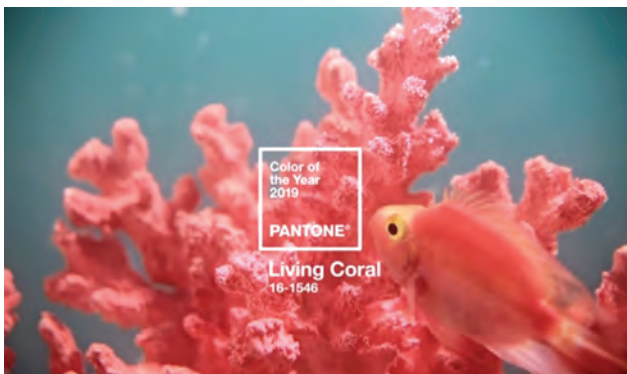
Pantone Color Institute has announced Pantone 16-1546 as the colour of 2019 and has named it “Living Coral.”

According to Pantone, PANTONE Living Coral is a nurturing color that appears in our natural surroundings and at the same time, displays a lively presence within social media and represents the fusion of modern life..

Leatrice Eiseman, execu-

tive director of the Pantone Color Institute, said, “Colour is an equalising lens through which we experience our natural and digital realities and this is particularly true for Living Coral. With consumers craving human interaction and social connection, the humanizing and heartening qualities displayed by the convivial Pantone Living Coral hit a responsive chord.”

The Color of the Year selection process requires thoughtful consideration and trend analysis. To arrive at the selection each year, Pantone’s color experts at the Pantone Color Institute comb the world looking for new color influences. This can include the entertainment industry and films in production, traveling art collections and new artists, fashion, all areas of design, popular travel destinations, as well as new lifestyles, playstyles, and socio-economic conditions. Influences may also stem from new technologies, materials, textures, and effects that impact color, relevant social media platforms and even upcoming sporting events that capture worldwide attention.



manroland Goss Group acquires GWS Printing Systems

manroland Goss web systems Group (MGWS) and GWS Printing Systems (GWS) of the Netherlands announce the signing of a Share Purchase Agreement covering MGWS's acquisition of the Dutch specialist in used web offset equipment.

With the acquisition of GWS and DOVAK, MGWS is making a next important step in the development of its strategy to be the most advanced solution provider to the web offset printing industry. MGWS and GWS have already closely cooperated in the field of used equipment, heatset press service and within the MARKET-X e-commerce platform launched by MGWS last year.

Alexander Wassermann, CEO of manroland Goss, emphasizes: "The acquisition of GWS and DOVAK by MGWS is a logical consequence of the many years of cooperation between the companies and the numerous project successes celebrated between the companies. Teaming our forces and solutions will result in an even

broader portfolio to the printing industry worldwide. We expect the used equipment market and related services to grow within the next years, so adding GWS gives us the chance to become an even stronger and broader supplier in this business area."

Walter Donkers and Eric van Kessel, current owners of GWS and DOVAK, add: "The graphic industry is facing constant change and it is obvious that suppliers seek to cooperate. Being part of the manroland Goss Group will allow us to develop and accelerate our growth plan for the business, increase market presence and support the MGWS business strategy in the new setup. In the area of used web offset equipment and related projects GWS will be given the chance to act as a standalone company in line with the clear MGWS vision to maintain the entrepreneurial approach GWS is known for and at the same time GWS will be able to extend its network and market reach."

Heidelberg establishes smart print shop concept

The print media industry in Asia is facing the same challenges as in other markets: print runs are getting shorter, the number of jobs is increasing, embellishment is becoming more and more complex, and all this with the shortest delivery times and lowest costs. Digitalization is progressing and these advantages are to be implemented internally in processes and externally in communication with print shop customers.

At the end of October, more than 400 customers experienced what this could look like by attending the Commercial Day at the Print Media Center Shanghai, China. Under the motto "Turn Passion into Profit", Heidelberg Druckmaschinen AG (Heidelberg) presented

sustainable solutions to make commercial print shops more successful and to guide them on their way to the Smart Print Shop. The fully automated process chain with the Push to Stop philosophy, which is only interrupted manually if necessary, was demonstrated in networked live presentations. This optimized, intelligent production process stands for higher production reliability and thus for more productivity and cost-effectiveness.

The Smart Print Shop is based on the Prinect workflow, which completely networks and automates processes from prepress, digital and offset presses through to postpress. This reduces contact points in the production process and sustainably increases process efficiency.



DPA's new website

Delhi Printers Association launched its revamped website recently. Please explore the updated website. We would be grateful for any feedback.

Explore at: www.delhiprintersassociation.org





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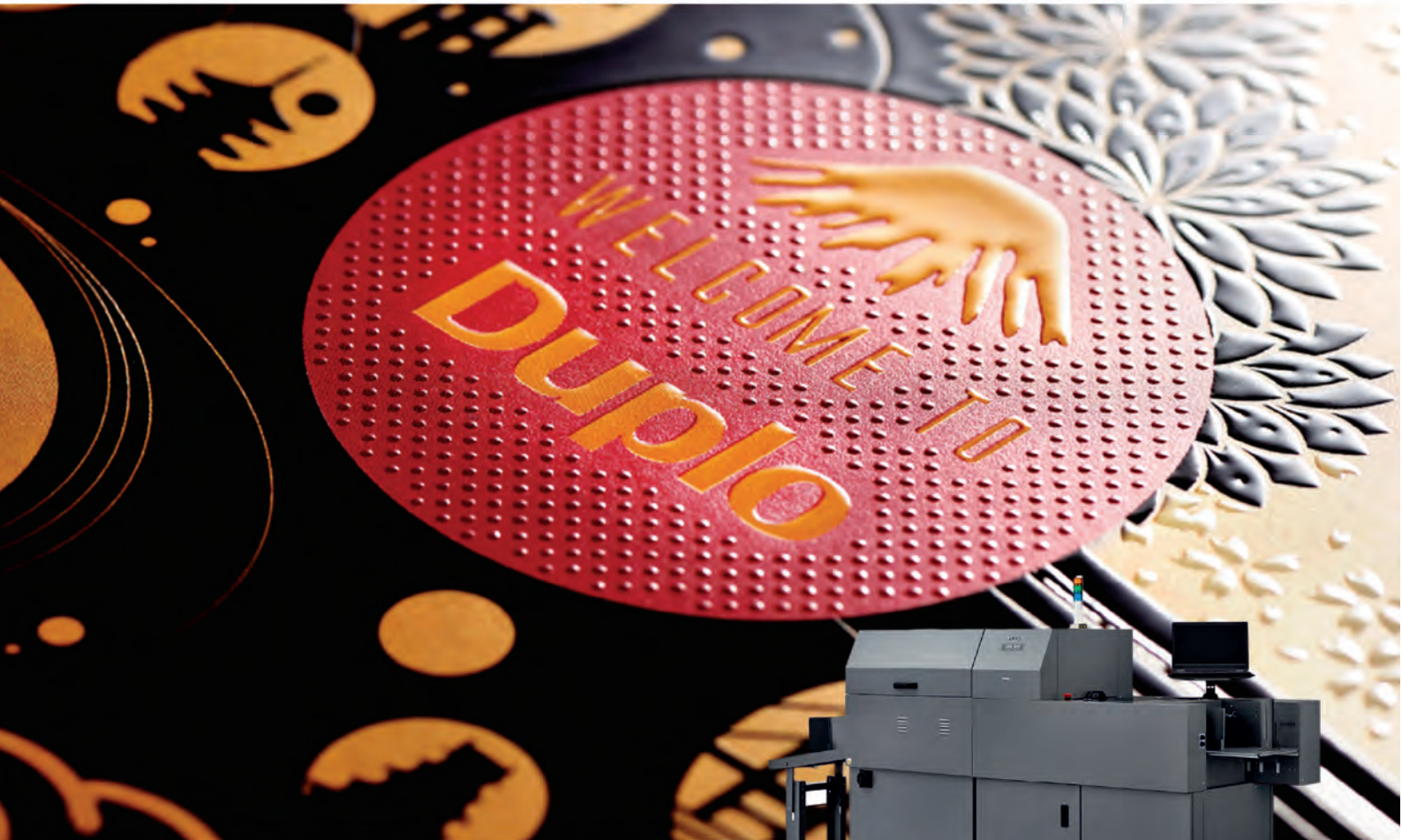
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