

DELHI *printer*



NOVEMBER-DECEMBER 2019

The Color Conundrum!
RGB, RYB, or CMYK!

Paper Bottles
*– The Future of
Eco-Friendly Packaging?*

PAMEX
2020

A Preview

PAMEX 2020

International Exhibition on Printing and Allied Machinery Industries
Of the Printers - For the Printers - By the Printers

6 - 9 January 2020

Bombay Exhibition Centre,
Goregaon, **Mumbai**



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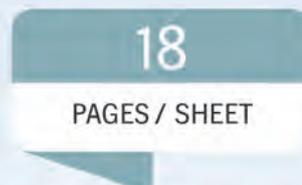
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Editor:

Veerendra Malik

Change and growth are two key components of a successful business. This century is seeing a very rapid transformation and development in technology on every front. The last two decades have especially been crucial to the printing business as we are in the process of a revolution in the way print business is viewed and executed.

As we enter the new decade, the future appears to be exciting and difficult to predict. One key factor we must keep in mind is that whatever technology advances we adopt, they should be eco-friendly. Any further interference with nature and climate change could be disastrous for the entire mankind. The world is already reeling under its effect with hurricanes, floods, famine, bush fires etc.

Growth is inevitable and with greater visual effects. The print industry is going to survive on packaging and the additive processes are what are going to set it apart from the run-of-the-mill products. In a consumeristic world, appearances count for increase in sales and that is what customers are looking for.

We wish our readers a very Happy New Year and Prosperous printing.



Associate Editor:

Sunil Jain

Dear Friends,

India's equivalent to world's renowned exhibition of the state-of-the art Printing and Allied Machinery 'Drupa' at Duesseldorf is 'Pamex' which is the flagship show of All India Federation of Master Printers and is regularly being organised. The next Pamex is being held from January 6-9, 2020 at Mumbai.

The vastness of Pamex-2020 can be judged by the international participation of bigwigs like Konica Minolta, Xerox, Canon, Riso, Bobst, Stoosa and Baumer besides the large Indian players, such as TechNova, Indo-Polygraph, Line-o-Matic, Autoprint, Chemline, Sangeeta Poly Pack, Wellbound, Zenith Rubber, Vinsak, Suba Solutions, Pratham, Malhotra Graphics, Monotech Systems and others. The theme of the show 'Future is Now' has been repeated as a clarion call to printers to adopt the latest technologies, techniques and practices in order to increase efficiency, provide more value to customers and thrive in today's competitive environment. Pamex 2020 will showcase emerging technologies such as : 3D, Robotics, RFID Printing, Multiwave LED Technology, Packaging Design Software and similar other innovative systems.

A number of road shows in Indian cities as well as in Nepal, and Bangladesh have been held for wide promotion under the banner 'Print Odyssey'.

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There is a general opinion among the printing fraternity that the state of our industry is grim because of hikes in the costs of labour, space, raw materials and overheads while the printing rates remain almost static. With deteriorating profits large units are gasping for survival. Only the small and micro units somehow continue to pull on due to low overheads. While big printers are modernising with latest technology and by controlling their expenses, medium-sized units have to struggle on account of limited financial resources. On the other hand, the print consumer has matured and demands high quality products at the lowest price. Increasing automation and digitisation has brought about a revolution in almost all the fields of production throughout the globe.

Like any other industry, printing industry also needs sufficient capital flow to upgrade with the ever-developing latest technology. Although a majority of the printers need finances, yet only the enterprising ones take the jump for modernisation. However they must become tech-savvy themselves so that they buy only the best machinery within limited resources. Then comes the need to re-skill their workforce or find new experienced operators. At the same time, printers should keep their eyes and ears wide open to assess the demand of the market which requires units to shift from traditional printing to label printing and packaging. Last but not the least, selling your products in this competitive world is extremely tough. It is your name, quality and punctuality to deliver orders on time that counts.

I am only telling you about the current scenario in print market so that you remain alert in your business and adapt to changing times as early as possible. We should not lose heart as there is enough scope in the print sector.

- Mahinder Budhiraja

// Gnāna //



Knowledge. To help you get future ready

Printing industry today is an ever-changing landscape and is fraught with fresh challenges. Print buyers across India and the world over put up tough demands on quality and consistency for their printed product. They are looking for international quality standards in color management, consistency in print output, reduced wastage and higher savings.

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This should be reason enough for you to think about total integration of your printing process. We help you upgrade, adapt the correct technologies that will allow you to face your customer's demanding challenges in color and quality while saving on cost and your bottom line.

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UFlex launches packaging solution 'Asepto Eye' for beverages

UFlex Limited India's largest multinational flexible packaging materials & solution company, has launched a cutting-edge packaging solution called 'Asepto Eye' for the beverages segment.

'Asepto Eye' is a ripple concave lens and single lens technology that gives 3-D effects on the aseptic packs. These lenses come in various sizes & shapes and offers bespoke artwork, as per the clients' requirements.

Speaking about the launch of this innovative solution, Ashwani Sharma, CEO and President of Aseptic Liquid Packaging Business at Uflex Ltd. said, "Asepto Eye is truly revolutionary in all respect and will change the concept of beverage packaging for years to come. The cutting-edge Asepto Eye technology having lens effect in packaging is unprecedented and offers myriad choices to manufacturers to be distinct on the shelves, and also add a premium value to their brand through our packaging."

"Our newest concept of aesthetic rejuvenation brings to the table a variety of option like foil-stamping, holography and 3D effects to communicate with end-consumers better, when the packs are on shelves. These options were never explored in aseptic packs since the packaging process is complex and everyone played safe. This launch will not only enhance the look of aseptic packs, it will also help them communicate well with purchasers" added Sharma.



Omet opens India subsidiary

Omet India, the new Omet technical-commercial subsidiary headquartered in New Delhi, India, was recently inaugurated in the presence of more than 80 members of the Indian printing industry, including printers, suppliers and brand owners.

Welcoming the guests, Harveer Sahni Chairman of Weldon Celloplast said, "Omet management's continued focus and faith in the Indian market has helped us grow the brand to a leadership position in the country. Their ongoing commitment to serve the Indian label industry is evident from their decision to invest in having their own office in the country to support Omet customers in a better way with faster response time."

"The vision of establishing OMET India is to strengthen our existing relationships with our partners and provide a great service experience to our customers all over the region" said Pawandeep Sahni, who has been appointed to lead OMET in India and the subcontinent.

OMET considers India as one of its important strategic markets to focus on, considering India is on its way to become a 5 Trillion US Dollars economy by 2024-25. Additionally rise in the middle class income, expansion of large scale organised retail trade, increasing presence of e-commerce companies and increasing demand of packaged food in India are



all indicators of an assured double digit growth of packaging sector of the country.

"A closer relationship with the industry and our customers will help OMET to develop innovative projects as well as improve business processes for our customers hence continuing our philosophy of Innovation with Passion, globally!", Said Marco Calcagni, Sales & Marketing Director, OMET Srl. "In the coming years we expect OMET India to become yet another center of excellence for OMET, in addition to our subsidiaries in USA, China and Spain" Calcagni added.

Omet India with its partners Weldon Celloplast and Printronics has already a team of over 10 engineers on board.

Since the year 2010 OMET has been exclusively sold and serviced in India through Weldon Celloplast Limited, who will continue to represent OMET in India along with other partners.

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Digiflex installs Esko Automation Engine

With an ever growing number of customers, Digiflex, one of the leading suppliers of flexographic plates in India, has installed Esko Automation Engine at its Hyderabad facility as part of a drive to improve efficiency.

Following a full demonstration - and having discussed options and obtained the opinions of various existing users across the industry - Digiflex selected Automation Engine from Esko, the global supplier of software and hardware solutions for leading global wide format, labels and packing professionals. The scalable workflow server not only automates print production tasks but also integrates business systems to speed up the whole process. More importantly, it reduces the error rate and the need for



operator intervention, ensuring both maximum accuracy and efficiency of platemaking.

“During our research we found that Esko Automation Engine was a very popular prepress workflow solution in the print and packaging industry the whole world over,” said Mr Nalli. “The combination of this incredibly positive feedback from users and our own successful demonstration

made the final decision an easy one.

“Our decision to install Esko Automation Engine means we can offer our customers the same or even better standard of service on which we have built our business, while maximizing our efficiency and productivity,” he said. “Not only that, but Automation Engine will clearly help us to effectively avoid errors that happen in the process of

handling files, achieving cost reductions through minimizing waste.”

John Fredrick, Esko Sales Manager for South India, said he was thrilled that Digiflex was continuing its partnership with Esko by integrating Automation Engine into its workflow. “As a comparatively young business, Digiflex is making a real name for itself with its cutting edge equipment and commitment to unparalleled customer service,” he said.

“The fact that Mr Nalli has seen fit to use Esko solutions to automate his entire prepress process is testament to the tremendous success Digiflex has enjoyed with our CDI Crystal 5080 plate imager,” he said. “We are delighted to extend our relationship in this way and look forward to working ever more closely with Digiflex as the company continues on its path to growing success.”

Siegwerk updates management teams in Asia and Americas

Printing ink specialist Siegwerk has made major changes to its management teams in Asia and the Americas, driving future

business performance and strengthening the company’s offerings and services for customers in global packaging and printing markets.

Herbert Forker, CEO and former president for Canada, the US and Latin America, has now taken over responsibility for India, China and Southeast Asia from Ralf Hildenbrand, who in return has assumed responsibility for the Americas from Forker.

Given the strategic importance of Asia, it is an obvious move to have these now maturing regions report directly to the CEO - while at the same time leveraging Ralf Hildenbrand’s experience in organization and business development for the Americas.

According to Siegwerk,

over the past decade, Hildenbrand has developed a successful growth strategy for Asia and its subregions and led the region to its current level of performance with dedicated teams serving customers with best-in-class technologies and services.

Hildenbrand will also continue to drive the global development of flexible packaging in his role as global flexible packaging business unit coordinator, as well as leading the global technology team including sustainability, circular economy, product safety and brand owner collaboration.





hubergroup goes



Cobalt-free formulations for sheetfed offset printing inks

Globally the demand for ecologically optimised products is growing. Brand owners are responding by intensified efforts to not only optimise their products, but also to the packaging and other print products with respect to sustainability. In order to document the achievements in protecting environment and resources, a growing number of print products are nowadays awarded with eco-labels from governmental and non-governmental organisations.

Some Eco-labels are required to eliminate certain substances in the production process. Cobalt compounds, which promote oxidative drying of printing inks as a catalyst, are generally considered to be one of the critical criteria to prohibit an award.

Accordingly, **hubergroup** was among the first to develop a cobalt-free drier system for oxidative drying sheetfed inks. This cobalt-free inks have exactly similar printing characteristics and colour values like cobalt containing inks system. Due to less increase in pile-temperature during the oxidative drying process, the drying performance has even improved with the new drier system, showing a clear optimisation with regard to drying kinetics. Rub and carboning properties have thus benefitted.

All sheetfed offset printing inks of **hubergroup** will now be available with cobalt-free formulation only. The group fulfills its corporate responsibility as printing-ink manufacturer to strengthen the sustainable development of print products and to promote certification with any of the eco-labels.

- **RAPIDA** COFREE
- **REFLECTA** COFREE
- **RESISTA** COFREE
- **QUICK FAST** COFREE
- **MAXXIMA** COFREE
- **MAXXIMA PLUS** COFREE
- **PACKAGING PLUS** COFREE
- **PRIME PLUS** COFREE

IPAMA elects New team for 2019-21

The Indian Printing Packaging & Allied Machinery Manufacturers' Association (IPAMA), elected its team for the term 2019-21 at the Governing Council on 16th October 2019.

During the meeting of the Governing Council held today, the consensus of the House was that the President, General Secretary and Treasurer have done an excellent job, therefore election for those posts need not be resorted to. Therefore, unanimously the names of S. Dayaker Reddy for President, Iqbal Singh for Honorary General Secretary and Dharam Pal Rawat as Treasurer, were proposed and approved by the house.



The following officer bearers were elected as the new office bearers of IPAMA:

S. Dayaker Reddy	: President
Iqbal Singh	: General Secretary
Dharam Pal Rawat	: Treasurer
Vinay Kumar Gupta	: Vice President (North)
P.K. Bhalla	: Vice President (West)
Jaiveer Singh	: Vice President (East)
R. Suresh Kumar	: Vice President (South)
Rakesh K. Sodhi	: Joint Secretary (East)
Satish Kaushik	: Joint Secretary (West)
Dharmesh Arora	: Joint Secretary (North)
Harish Bansal	: Joint Secretary (South)

MHRD Launches Schemes For Technical Institutes

The Human Resource Development Ministry (HRD) on Wednesday launched new initiatives for technical education including giving weightage to the feedback of students in evaluation of teachers and mentoring of 727 technical institutions by well-performing institutes and retired faculty to enable them to achieve accreditation.

HRD Minister Ramesh Pokhriyal Nishank unveiled the schemes to be implemented by the All India Council for Technical Education (AICTE).

On occasion, a model curriculum for diploma courses was also introduced. To promote women entrepreneurs in waste management, 5,000 students from technical institutions will participate and attempt a Guinness record by making recycled cloth bags as a showcase for revenue stream and to curb the menace of single-use plastic.

Edale extends support for growing market in India

British flexographic presses supplier, Edale has appointed Sharad Gaur as its first service and installation engineer in India to support local clients and extends the company's support capabilities in the region.



Gaur will focus on providing support to customers in India and surrounding areas. He has a strong engineering background and a BA in engineering having studied at North East Frontier Technical University in India.

Ryan Barrett, Edale's After Sales Manager comments – "We have seen the market grow in the Asia Pacific Region and the Edale brand offers our customers more choice and the access to new design, leading print technology and greater automation. We continue to grow globally and our team of specialist service engineers is pivotal in supporting our customers worldwide, providing installation, training and after-sales services."

Edale is a leading supplier of high technology, narrow mid-web flexographic and digital printing presses and converting equipment. The company's expertise in web transport for single pass inkjet has facilitated technology customers to commercialise their innovations with the essential features and necessary standards demanded by the packaging industry. Edale is represented in India by Printers Supply Co. Pvt. Ltd.

Minimum Wages Revised from October 22, 2019

On the basis of the Supreme Court order dated October 14, 2019, the Addl. Secretary (Labour), Government of the NCT of Delhi, has issued a Notification No.13(1)2018/MW/Lab/3602 on October 22, 2019 notifying the following revised Minimum Wages payable in Delhi w.e.f. October 22, 2019:

Category of Employees	Minimum Rate of Wages in Rupees	
	Per Month	Per day
Unskilled	14,842	571
Semi-Skilled	16,341	629
Skilled	17,991	692
Clerical & Supervisory Staff		
Non Matriculates	16,341	629
Matriculates But Not Graduate	17,991	692
Graduate & Above	19,572	753



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Ensure defect-free print product to your end customers with revolutionary imaging technology.



Spots the tiniest defect
Powerful software algorithms enable sensitive defect detection while maintaining high yield.



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Adjustable vacuum chamber enhances flatness of carton, improving reliability/repeatability of inspection.



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Newspaper reading on the decline, except India

The South Asia Media Festival 2019 by International News Media Association (INMA) saw industry experts trying to debunk myths about the print industry in India. While experts spoke about various myths and issues with the print industry, Andy Brown, CEO and chairman, Kantar Media, spoke about the growth of the print medium. He backed his presentation with data released by TGI Global quick View Report.

Out of 22 countries in TGI Global Quick View, India is the fourth largest market for newspaper publishers. Even in the age of digital, print remains the second most consumed media after TV. With its loyal and exclusive reader base, print is the most credible medium among Gen Z too, says the report.

“Twenty years since the Internet began playing a part in lives of consumers, the reading of newspapers in hard copy continues to fall in most parts of the world. One major exception is India,” said Brown.

The audience for news brands in their traditional printed format has been on the decline in many markets around the world for so many years. But in India, the scenario is the exact opposite. Here, in India, the increasing population and socio-economic growth is resulting in a boom in readership of Hindi and other regional newspapers, said Brown.

With the rising demand for Alexa and Amazon Echo, audio-based devices could surely be the future of marketing and advertising but for news consumption, even Gen Z heavily relies on print, say experts.

Zircon expands capacity with Mark Andy and Rotoflex equipment

Zircon Technologies has added premiere flexographic, converting and finishing equipment to their existing portfolio of state-of-the-art presses and facilities.

The company’s most recent acquisition includes two 17" Performance Series P7E presses, one configured with 10 colors and the other with 12. Additionally, the company expanded their offline converting and finishing equipment portfolio with the addition of one Rotoflex DLI, two Rotoflex VLIs and two Rotoflex VSIs. This agreement also includes an additional highly configured Performance Series P7E and three additional Rotoflex machines to follow shortly.

With new acquisitions Zircon plans to enter into verticals outside of their

current specialties, which include Wine and Spirits, Home and Personal Care and Security. Zircon will also be entering the market of cardboard tube and aluminum foil lidding. Some of the new equipment will be installed at its new facility in Dehradun.

Gourav Roy, Managing Director Flexo Image Graphics, believes that the future of Zircon is limitless and is looking forward to contributing to the continued success of the company as a trusted industry contact.



Essel Propack Unveils Recyclable Tube Packaging

Essel Propack, an Indian multi-national company in the business of manufacturing laminated plastic tubes, today announced an innovation in the form of recyclable HDPE barrier tubes. Essel



Propack’s Platina 250 and Green GML 300 Lamitubes have been recognized by Association of Plastic Recyclers (APR), USA as meeting or exceeding the strict APR HDPE critical guidance criteria.

On the occasion, Essel Propack’s Business Leadership Team mentioned “We are extremely delighted, as this will open the doors for many such innovations in the near future and we will proactively reach out to every customer to convert to this packaging format and increase the economy of

scale to make this an easy adapting solution for every brand. This will enable Essel Propack to globally participate with customers and help them to achieve their sustainability commitments.”

The R&D team based out of Essel’s focussed innovation facility in Maharashtra, India worked extensively on several design and formulation options in developing recyclable HDPE barrier tubes. The unique and complex task to the team was to Innovate on sustainable tubes without

compromising any of the functional features of the tubes like feel, shelf life, safety and machinability requirements for the various generations of production lines.

After use, the Platina and GML tubes can be recycled in the dominant #2 plastic stream used across the globe for recycling Milk Cans, Juice bottles etc. Use of HDPE in Platina and GML tubes increases the stiffness of the tubes, enabling downgauging/reducing polymer content and in helping users to deliver on their sustainability commitments.

The Color Conundrum!

RGB, RYB, or CMYK!

Color is something we take for granted these days.

From the impossibly bright colors manufactured by man, to an abundance of colors we can conjure at will from a world where nature itself may hold certain hues in sparse reserve. There was a time when the fleeting glance of a flower or the momentary glory

of a sunset would have been near enough the Only moments of startling beauty in our lives.

Not so anymore...

Indeed, even the process of gaining mastery over pigments for our own uses was an arduous and painstaking work of countless years and endless

experimentation. We do not think twice these days to walk into a store and be presented with Hundreds or even Thousands of different hues to choose from. Indeed, we have the somewhat miraculous option even to gather the leaves themselves, or the flowers we find, and have Those Hues specifically conjured for our use on demand.

Whereas our ancestors were given to scour the wide worlds for rare beetles, pungent roots, raw minerals, butterfly wings, and snail shells to create the colors they could use, and even then, only at great cost!

Indeed, it is interesting to learn how many colors we may find less appealing were given to their own periods of vogue and conspicuous usage precisely because of their novelty, expense, or the status they gave as an unusual or uncommon color of their times.

But, as I mentioned before, we live at a time now where we are spoiled for choice!

For the artist, and the designer, The CHOICE of color



is often All Important.

Colors not only often form the very substance of their work itself, but the Selection of color is perhaps among the most vital of skills for their craft and its success or failure at each and every step of the process.

And colors have not only their intrinsic appearance, but also a whole galaxy of relationships, conflicts, connotations, interactions, structures, secrets, and difficulties.

Indeed, whole books have been written on the symbolism and Language of color. And hundreds of years of thought and study have been spent upon developing a structure for their employment.

This structure, indeed the very backbone of the theory that has ordered mankind's use of color for Centuries, is embodied in the Color Wheel.

This simple design encompasses a whole world of relationships and logic found in the use of color for

design. It has, in a manner of speaking, been proven to be proper through hundreds of years of successful employment. It could be argued that every time you have looked at a successfully designed color scheme, a pleasant mix of hues, a striking design, or a clever advertisement, that This wheel, or the relationships it establishes, is to be thanked.

How early on do we all learn that there are Three PRIMARY COLORS?

And that mixing those colors will give you all the other colors?

Those colors, as we have been taught for ages, are RED, YELLOW, and BLUE (RYB).



A logic proven time and again by the use of those colors to paint any number of pictures - with fingers, sprays, or brushes.

Moreover, we learn that mixing Red and Yellow will give us Orange, that mixing Red and Blue, will give us Purple, and mixing Blue and Yellow will give us Green... And mixing all three will give us variations of Brown, until in theory we get black...

Thus we have all the colors in the crayon box - Red, Orange, Yellow, Green, Blue, Purple, Brown, and Black.

Artists also know that the color opposites are represented by a primary, and the result of the mixture of the other two primaries...

So Red is opposed by Green, Yellow to Purple, Blue to Orange. And by mixing opposites, you can draw the color closer and closer to Grey...

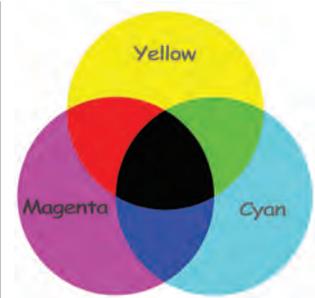
A multitude of other structures and relationships can be formed around this basic shape, and understanding the use of it is among the most helpful tools any artist can use...

Unfortunately, however, it would seem that this color wheel is essentially WRONG.

Before delving into the New color wheel design, let me address another peculiarity of color use that was learned a while ago.

Color mixing when using paints (pigments) may be addressed with one color wheel, but the mixing of colors of LIGHT requires quite another wheel - indeed, it points us at a totally different set of primary colors.

In This color relationship,



Yellow is replaced entirely by the presence of a Green Light.

These color relationships (built upon the structures of light sensitivity within the human eye) are also demonstrably true.

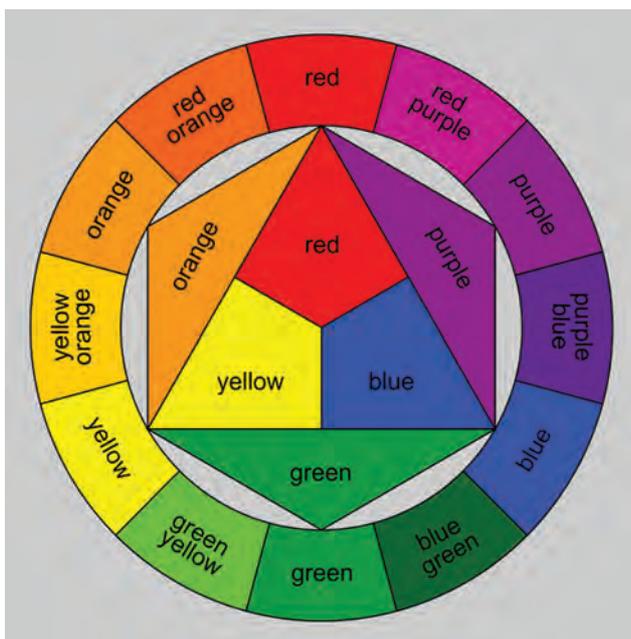
The mixing of these colors of light upon a white background, which is to say a neutrally reflective background in an otherwise dark environment, has proven to be true.

Equal parts Red, Blue, and Green light shown upon the same spot will create an area of perceived White light.

This difference itself, that between the first and second color wheel, and the replacement of the primary color Yellow with Green while maintaining the use of Red and Blue, can seem a strange and unexplained difference.

Why would it take the shining of Both a Red AND Green light be necessary to create the perception of Yellow, while it takes indeed the Other Two of the primary colors of pigment - Yellow and Blue - to create the Green to begin with?

So, you seem to need Red and Green to get Yellow, but Yellow and Blue to get Green - but on one side, Red Yellow and Blue will get you Brown/ Grey/Black, while on the other, Red Green and Blue will give you White!



All the time Yellow and Green themselves are given as “Primary Colors” of which no others can be mixed to create!

At least in the instance above, the colors Red and Blue are constant aren't they?

Actually NO.

With the creation of computers, and the use of printing methods, it turned out that while Yellow remained secure as a primary color (never mind the situation described above) both Red and Blue were, in fact INCORRECT primary colors themselves.

Were you to open up the nearest printing machine, you would quickly find that while there remains three primary colors utilized to create every other hue we see, they are no longer those you learned as a child.

The Red, Blue, Yellow color wheel has been Replaced by a wheel consisting of Cyan, Magenta, Yellow, and Black.

Here again, the use of these colors has been demonstrated to be successful in recreating every other hue we need. And some would say that Cyan seems to be near enough to an alternative color of Blue. While Magenta seems a sort of pinkish kind of Red...

And, this is not entirely wrong...

Perhaps in all of those years of scouring the seas and jungles for pigments, our ancestors simply never came upon a ready supply of the colors Cyan and Magenta... Perhaps our colors for Red

and Blue were simply the nearest we could get?

Indeed. In terms of actually having to Look at them and Use them Daily, who Wouldn't prefer a lovely Blue to the funky brightness of a Cyan, or a bright red sports car to a bizarre pinkish Magenta one?

Could it not be simply a matter of choosing the hues we intend to actually Use?

Well, perhaps, but... No.

As a designer and artist, what concerns me about the new Cyan and Magenta color wheel is not the slightly odd resulting primary color options, but the impact it has on the greater structure created Around the wheel as made before!

The fact is, tweaking the primaries fundamentally alters every other color of the structure!

It means that Suddenly, the secondary colors that used to be Orange, Green, and Purple - have now become Red, Green, and Blue (sound familiar?)...

So Orange is no longer a simple mix of two equal primaries, but a tertiary color along the lines of Yellow-Orange from before - which itself has become a further step removed akin to Yellow-Yellow-Orange...

And Purple much the same...

Again, the part My brain gets stuck on is the asymmetry. While Orange and Purple become colors once removed from before. Green stays where it was. A proper secondary color...

But the Real issue for Designers comes in when you delve into Opposing colors.

As I stated before. Design for centuries has held that:

The opposite of Red is Green.

The opposite of Blue is Orange.

The opposite of Yellow is Purple.

A position held as true because of the demonstrable fact that the mixture of opposites drew your color closer to the brown/grey/

black center...

Only Now, the New Color wheel would have you believe:

The opposite of Red is Cyan.

The opposite of Blue is Yellow.

The opposite of Yellow is Blue.

Imagine! The opposite of a “primary color” being a Primary Color itself!

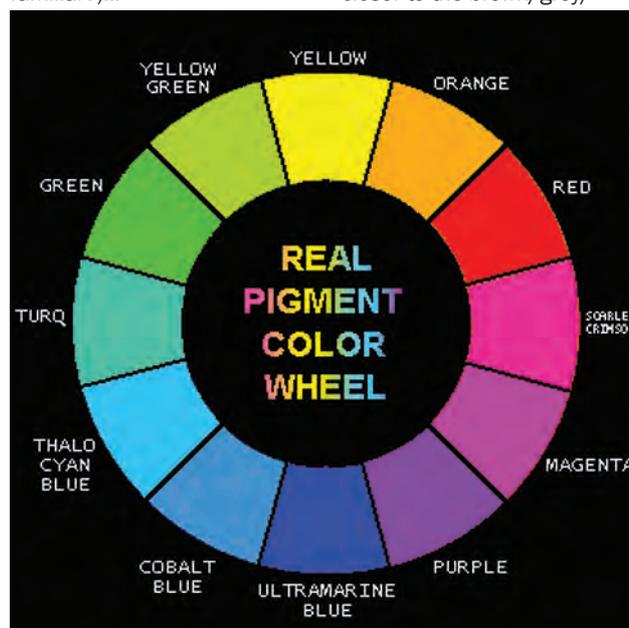
And while this color scheme may prove correct for printing and generating colors on a screen, the fact remains that, though they may prove correct in some cases, we Know it also to be a fact that mixing Yellow and Blue does not get you Grey or brown - but Truthfully, GREEN...

So. We are faced in the end, not with certainty, but with a collection of demonstrable facts that simply do not correlate with each other.

Any artist or designer who attempts to turn to the CMYK color wheel for design structure in the same way the original RYB color wheel has been used, will find themselves subjected to bizarre and distasteful color relationships that simply do not read as rational to the human eye (in my opinion) no matter what the science may say.

The rationality behind this disconnect, and what it may say about the human condition is not doubt there to be discovered, but in the meantime, we remain puzzled by events and facing two equally useful and individually rational systems...

With the caveat for any artists facing the CMYT to remember...



Paper Bottles

– The Future of Eco-Friendly Packaging?

Could paper be a new sustainable type of bottle packaging? Maybe it is. Paboco (The Paper Bottle Company) grown from the start-up and innovation expert EcoXpac, has developed a 100% bio-based and recyclable paper bottle.

Could paper be a new sustainable type of bottle packaging? Maybe it is. Paboco (The Paper Bottle Company) grown from the start-up and innovation expert EcoXpac, has developed a 100% bio-based and recyclable paper bottle. The wood fibres used come from sustainable, well-managed forests and for each tree logged two to three are (re)planted and enabled to grow to an optimal size.

There Must be an Inner Barrier

The Paper Bottle Company is a venture between the paper packaging material developer BillerudKorsnäs and the bottle manufacturing specialist ALPLA, who recently announced that Avantium will be one of the technology providers for the Paper Bottle Project.

In order to use it for various purposes, the bottle needs an inner barrier that

contains liquids and prevents gas permeability through the bottle, which is necessary for beverages such as beer and carbonated soft drinks. There are two prototypes of the paper bottle: One uses a thin recycled PET polymer film barrier, while the other has a 100% plant-based PEF (polyethylene furanoate) polymer film barrier by Avantium. PEF's barrier and thermal properties are claimed to be superior to conventional PET and may become the next-generation polyester. Nevertheless, both prototypes are an important step towards a circular approach to packaging.

Major Brand Owners Joined the Paper Bottle Project

Carlsberg Group, Coca-Cola Europe, Absolut Company and L'Oréal climbed on the bandwagon

and joined the Paper Bottle Company. Carlsberg founded a Together Towards Zero Initiative, which includes a commitment to reach zero carbon emissions by 2030. At the C40 World Mayors Summit in Copenhagen on the 9th to 12th October, Carlsberg said that the "Green Fibre Bottle" prototypes will be produced from sustainably sourced wood fibres and can be recycled completely. Carlsberg already replaced their plastic wrap for six-packs with a snap-pack and was able to reduce the plastic content by up to 76% compared to conventional multipacks.

The Coca-Cola Company formulates its vision of working towards a "World Without Waste", which includes goals to make all packaging 100% recyclable and to ensure that at least

50% of plastics bottles consist of recycled materials. The paper bottle concept could make a valuable contribution to achieving those goals.

Paper bottles could also be an eco-friendly alternative in the cosmetic industry. Since October, L'Oréal is the first cosmetics company to be involved in the Paper Bottle Project and announced the launch of the paper-based cosmetic tube in 2020. The development of the paper bottle is already underway and the market launch is planned for 2021.

"A Paper Bottle in Every Hand"

The Paper Bottle Company Paboco wants to become part of the solution and have the vision that there is a paper bottle in every hand. Although there is still some work to be done, the sustainable and commercial potential of paper bottles is immense: packaging that can be recycled or returned to nature without harm. Paboco said: "By changing the bottling industry for good, we have the opportunity to impact people's choice of sustainable packaging and indirectly spark the beginning of an everyday movement."

Courtesy: blog.drupa.com



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DPA submits memorandum to EDMC DPA participates in Media Expo

A delegation of Delhi Printers' Association, led by Hon. General Secretary Mr. Kewal Krishan Singhal, met the Chairman Standing Committee of East MCD Mr. Sandeep Kapur on November 7, 2019 and submitted a memorandum to seek his urgent intervention for the problems being faced by DPA members as a result of the ongoing surveys and issuance of challans for carrying out industrial activity in the basement area. The delegates appealed to the Chairman to take concrete steps to safeguard the business of DPA members on top priority.

Mr. Kapur gave a patient hearing to the delegation and assured early relief to affected printers.



Diwali Puja held at DPA office

The regular feature of observance of 'puja' to worship Goddess Lakshmi on the occasion of the festival of Diwali was held at the office of Delhi Printers' Association on October 25, 2019. The office bearers and staff members paid their obeisance to the deity by singing 'arti'. The customary vermilion 'teeka' was applied on foreheads and the sacred red cotton thread 'mauli' was tied on wrists of all participants. After the 'arti' sweets were distributed as 'prasad' and Diwali gifts of dry fruit boxes and sweets were given to the staff.



Messe Frankfurt Trade Fairs India organised Media Expo-2019 at Pragati Maidan in New Delhi from September 6-8, 2019. The 3-day international exhibition of the latest technologies in the fastest growing sector of indoor and outdoor advertising and signage solutions had over 250 exhibitors who showcased their state-of-the-art machinery giving live demonstrations.

At the stall DPA had displayed through panels its 64-year old history of the major events it organised from time to time for the benefit and growth of the printing industry. The association's monthly newsletter *Masik Samachar Patrika* and bi-monthly *Delhi Printer* as well as the directory of its members were also kept for perusal and sale. A number of visitors showed keen interest in the colourful events of DPA which is the largest association of printers in Asia.



Reminder for Annual Subscriptions

Members of the DPA, who have not paid their subscription dues for the year 2019-20 are requested to do so urgently. Members who's dues are pending for the year 2018-19 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 deposit the Membership Fee by direct bank transfer they can do so as per the following bank details.

A/c : Delhi Printers' Association, SB Ac No. 90042010031370
IFSC Code: SYNB0009004, Bank Name: Syndicate Bank

A/c : Delhi Printers' Association, A/c No.: 013694600002222
IFSC Code: YESB0000136, Bank Name: YES Bank Limited



A preview

PAMEX the “International Exhibition on Printing and Allied Machinery Industries” will showcase generation next technologies from worldwide solution providers across various categories like pre-press, in-press and post press segments. The Show will host dedicated pavilions for label & narrow web printing and presses; paper & board converting and corrugated machinery & equipment. Flexo & gravure printing, digital presses, web offset presses, sheet fed offset presses and signage machinery & process equipment will widely be displayed at the event.

Bodhi Professional to focus on Colour Management and Standardisation

Bodhi Professional Solutions Private limited will be showcasing a range of products that help the printing and publishing industry to improve & upgrade. The main focus in Pamex will be color management for the pre-press and production team.

Some of the solutions on display will be:

ALWAN - Alwan Color Expertise is a worldwide leader in color management, standardization and process control.

ARDEN - Impact is the packaging industry’s most versatile program for the design of paper/plastic-based packaging, point of sale displays and production tooling. It has all you need to

set your company apart from the competition - either it can be solid board, corrugated or plastics.

MAXPRO an ISI Graphic System product is the next product in line which is being displayed. It is a prepress professional software dedicated to resolving all the hardest problems of packaging.

INSPEKTOR Solutions a product from OmniTek, offers various solutions and software which enhances prepress workflows and help to automate even very complex tasks

Xrite: With so many places for color to go wrong, it can be hard to know how to get it right. That’s where X-Rite can help. The eXact family is one of the benchmark product lines of the industry in the area of color measuring instruments.

Rutherford is another all-rounder product with closed loop solution combined with *Intellitrax*.



Canon to highlight imagePROGRAF PRO

Canon will debut its wide format printer the imagePROGRAF PRO 541S. The new PRO-series printers are equipped with a single 1.28 inch wide, 8-colour integrated compact Full-photolithography Inkjet Nozzle Engineering (FINE) printhead.



Canon Professional Printing Products displayed at Pamex 2020 will cater to Customers who have high or specialized Print requirements for bulk printing, across wide range of media, Quality & Applications needs in graphic arts, CAD/CAM, photo, books and transactional Printing Segment. Professional Printing Products Division of Canon will showcase New Products for Production, Wide Format & Commercial Printing at Pamex 2020.

Canon will also be displaying production presses, the imagePress C8000VP, the imagePress C710, the imageRUNNER ADV 8585 and the wide-format inkjet printer TX-5300 MFP T36.

Special offers from Hitech Systems

Apart from the wide range of products displayed at the show Hitech Systems will offer 18 months’ warranty on the machines, which are in the price range of Rs 10 lakhs plus against the 12 months it normally offers. This, according to Hitech will show confidence of top quality and performance of these products.

Besides these, the company will also offer special schemes on foil printing equipment, paper cutter and binding machine range.

PAMEX 2020 A preview

Impel-Welbound to launch new products

Impel-Welbound group will launch a range of new products during Pamex 2020.

These include a medium speed-quick change over binder that can be connected inline; plus a soft cover book production line,



an in-line three knife trimmer, innovating solutions for hard cover book production.

The company will also be displaying solutions from their global partners including pharma and commercial folding machines from Guk-Vijuk of Germany.

Pamex 2020 will also be a preview of some of the equipment being showcased at drupa for the global market.

‘Innovate to Create’ - Komori’s corporate theme at Pamex

Komori is participating at Pamex with its corporate theme ‘Innovate to Create’

“Komori believes by providing such an opportunity that the customers can see the Komori technological advantage in the ever-transforming graphic arts industry. I think that the slowdown has bottomed and good days are around the corner and customers will be able to appreciate the value Komori adds to their customers’ bottom line” says Sangam Khanna, Deputy Managing Director, Komori India.

With over 48% market share in India, Komori is coming to Pamex 2020 with the special offers on its bestselling presses Enthroner and Lithrone.

For bookings of presses, the company will offer an opportunity to visit drupa to witness developments from Komori and plan for the future.

Standard Printers Providers at Pamex

Pamex 2020 will see the promotion of the Taiyo STF Series label press from Standard Printers Providers.

Taiyo STF 340 flexo label press is suitable for printing on a wide range of substrates. The USP of the machine is that it runs cold foiling at the speed of 150 mpm. In addition, the press can also be equipped with optional features like rotary silk screen printing, hot wind dryer, intermittent die-cut, in-mould label device, and sheet cut unit and others.

Konica Minolta exhibits full range

Konica Minolta Business Services India will present its full range of industrial and production printers.

In the range, a key highlight from the industrial line will be one post embellishment MGI JetVarnish 3DS digital press. Other key products to be demonstrated at the booth of the company will include IQ-501 Intelligent Quality Optimizer, an inline colour management tool for sheet-fed machines.

Also, Flexo Auto Verification for complete verification of documents inline will be another key product to be demonstrated.



Nulith to display anti-counterfeit options

Nulith Graphic Private Limited is a Mumbai based manufacturer and distributor of printing consumables for offset, screen printing. The company also distributes flexo plates, inks, UV & water base coatings, offset blankets & underpacking adhesives, Rollin blanket, Mark 3 zet, Actega Terra coatings, NIK & Eckart inks, Lucky flexo plates, HB Fuller adhesives, Innovators UV coatings & inks, XCP press protection.

The highlight at Pamex will be the display of anti-counterfeit options, coatings with barrier properties for replacement of plastic and other Flexo and offset print consumables.

According to Suresh Shah of Nulith, Pamex is a great platform to meet all stakeholders from the industry and opens up a whole host of opportunities.

Live demos of USAR 430 from VINSAK

VINSAK is all set to unleash its full potential at the upcoming edition of Pamex 2020,

The company will be showcasing the VINSAK USAR 430 (Modular Slitter Re-winder) including TIJ (Thermal Inkjet system) for variable data printing and visitors will be able to experience the live demo of machine.

VINSAK claims that USAR is an excellent solution for Buyers looking for affordable but efficient slitter and re-winder with upgradable options of Die-Cutting, VDP and 100% inspection system. With all major components driven by servo motors, the equipment can run maximum up to 300 meters per minute. It is backed by powerful software and features a HMI display for easy job set-up and single window operation.

Visitors will also see the VINSAK Roll Lifter (VRL Series), a portable roll lifter equipped with a safety brake for loading, unloading and transporting the rolls safely.

hubergroup revolutionizes the pressroom with ECO-PERFECT-DRY

With the help of extensive research work, the international printing ink manufacturer hubergroup has succeeded in launching a particularly fast drying and environmentally friendly ink series: ECO-PERFECT-DRY. The Cradle to Cradle silver certified sheetfed offset inks, which enable the print product to be processed quickly, are ideal for commercial printing.

For the development of the globally available ink series, hubergroup carried out extensive tests in order to optimize the drying process. For this purpose, the ink specialist cooperated with the German company Onlineprinters to examine the processes in practice. Bernd Groh, Global Product and Portfolio Manager Sheetfed/UV at hubergroup, explains: "It was important for us to exactly understand the interaction between the drying parameters and the drying performance – that's why we speak of drying kinetics. Thanks to this knowledge, ECO-PERFECT-DRY has a unique drying speed which helps printers speed up processes."

Additionally, hubergroup paid particular importance to the eco-friendliness of the product. Consequently, ECO-PERFECT-DRY is not only cobalt- and mineral oil-free, but also has an optimised CO2 balance. Therefore, the Cradle to Cradle silver certified printing ink is ideal for environmentally conscious companies.



DPA 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

Heidelberg updates short-run finishing capabilities



Heidelberg has developed new finishing machines to facilitate adding value to short runs and digital jobs.

This includes the Digimatrix 60 C/FC for die-cutting and hot foil stamping, and Diana Go 85 folder gluer, with speeds and capabilities specifically targeted at adding value to such commercial and packaging work.

Digimatrix 60 C is a small format die-cutting and hot foil stamping machine. It has a maximum format size of 60 x 45cm and a maximum speed of 5,500 sheets per hour. The material range extends from 90-600g/sqm cardboard. Such specifications make it suitable for producing short-run die-cutting work such as presentation folders and irregular shape direct mail applications, as well as foiling and embossing folding cartons.

The FC version with foiling allows for hot foil to be applied on a variety of substrates. The foil stamping station features two servo-driven foil shafts with

separate controls, foil break sensors, and air blast support to ensure good separation of the foil from the substrate. The quick-change honeycomb chase features a fast heating drive with four heating zones and a temperature range of 40-180 degrees C. The maximum foil diameter is 220mm and foil width range is 20-385mm.

Both can be equipped with the Masterwork Masterset camera-based infeed mechanism that registers each sheet individually based on the location of print mark for print-to-cut registration.

Die-cut and/or foiled jobs are then able to move onto the Diana Go 85, a compact folder gluer offering complete forming of commercial jobs and folding cartons at speeds up to 300m/min and a machine length of less than 10m. It has a wide format range, from 850mm down to 45mm, and can run folding boxboard of 200-600gsm and N/F flute corrugated board for straight-line/lock-bottom applications.

Henkel invests in recycling startup Saperatec

Henkel is reinforcing its commitment for the development of a circular economy by investing in the recycling specialist Saperatec. The startup company has developed an innovative, patented technology that among others allows the separation and recycling of flexible packaging that contains aluminum foil. The two companies have already been involved in a technical collaboration for over two years, with the aim of developing and enhancing a range of customized recyclable adhesive solutions. With this strategic investment in Saperatec, the Adhesive Technologies business unit is confirming its dedication to sustainability: Henkel aims to provide its industrial

customers with comprehensive and efficient recycling solutions for flexible packaging especially in the food industry.

“We are committed to driving sustainable development toward a circular economy. Saperatec’s technology is the first to allow efficient and high-value recycling of flexible aluminum composite packaging,” explained Paolo Bavaj, Head of Corporate Venturing at Henkel Adhesive Technologies. “Our collaboration has led to the development of new high-performance adhesives,

which are compatible with Saperatec’s technology. We will now continue to expand and optimize this product range for flexible packaging in order to provide our broad customer base all along the value chain and especially in the food packaging industry with sustainable and efficient added value.

Innovative and cost-efficient recycling technology created by Saperatec GmbH, founded in 2011 in Bielefeld, Germany, separates the individual layers of composite materials and maximizes the

quantity of material utilization. To do this, the startup has been operating a pilot facility since 2014, in which chemical-physical processes separate the materials from one another without disintegrating them. The individual layers (for example polyethylene, PET and aluminum) are then sorted after the separation process and reintroduced into the value chain as high-quality, single-origin materials that can be used for a broad variety of industrial applications. The company is starting to build its first production plant in Europe after closing the fund-raising round.



KODAK PRINERGY VME with managed services launched

For 20 years, KODAK PRINERGY Workflow has formed a solid backbone for commercial, publishing and packaging printers’ production activities with its high automation, efficiency, integration capacity and

flexible connectivity. The launch of PRINERGY VME with Managed Services represents a decisive step into the future by Kodak.

With PRINERGY VME (Virtual Machine Environment), each customer’s virtualized PRINERGY software is hosted and managed by Kodak; backed by Microsoft Azure’s \$1B investment in R&D. Through the Managed Services, Kodak assumes responsibility for system administration, 24-hour security and monitoring, upgrades and problem resolution.

In conjunction with Microsoft Azure, PRINERGY

VME with Managed Services helps business-critical prepress software run at optimal levels 24/7, 365 days a year. Kodak assumes responsibility of the system in its care, data backups are distributed across several data centers which provide ironclad security, disaster recovery and business continuity.

For customers, this has the advantage that they are no longer required to operate, manage and maintain any local servers directly on premise, lowering the total cost of ownership. Printers can streamline their IT infrastructure and rid themselves of the costs and

constraints of system.

“PRINERGY VME with Managed Services is industry-first innovation that combines state-of-the-art cloud technology with our Managed Services under a subscription model. This product offering marks the future for all prepress and print workflow software platforms,” said Todd Bigger, President, Kodak Software Division and Vice President, Eastman Kodak Company. “This one-of-a kind solution guarantees reliability and optimized performance, protecting customers against cyber attacks with maximum flexibility to adapt as the marketplace changes.”





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Adobe's Photoshop for the iPad is finally here, more to come

Adobe unveiled Photoshop for iPad version 1.0 at its annual Max design conference. The app has been redesigned for the context of a mobile device and includes many of desktop Photoshop's core tools, particularly around compositing, retouching, and masking. Not everything is here, but Adobe says this first version is just the starting line.

"This is the beginning," Photoshop product manager Pam Clark writes in his blog. "The first version of Photoshop on iPad is focused on ... common tasks and workflows that we know will be useful for most Photoshop users."

Adobe is careful to note that more features will be added over time, as the company's labeling of the app as "real Photoshop" led to some early reports of beta



testers ending up disappointed that the software wasn't what they had hoped for.

It's true that Photoshop for the iPad doesn't have all of the features of the desktop version, like the pen tool or an animation timeline. But the term "real Photoshop" comes from the fact that the iPad app is built

from the same code base as Photoshop on the desktop. Adobe is also all-in on its new Cloud PSD file format, which allows users to sync edits across the tablet and desktop, and it hopes to encourage users to house their Photoshop creations in the cloud going forward.

Cloud PSDs signify Adobe's commitment to its

new generation of tablet apps, including Fresco and Aero, which both support the new file format. When a PSD is in the cloud, its extension will be changed to PSDC, "C" for cloud. PSDCs will auto-save as users work and can be saved in other cloud storage locations other than the Creative Cloud. Users can use Photoshop on their iPads or desktops offline, with edits being cached on the device until they connect back to the internet.

Photoshop on the iPad is only available for Creative Cloud customers, meaning it's included if they're already paying for a plan with Photoshop. If not, users will have to sign up for a subscription, the cheapest of which is the \$9.99 Photography plan that includes Lightroom and Photoshop.

Miraclon opens second flexo plate manufacturing facility

Flexo technology specialist Miraclon has opened its second flexo plate manufacturing line, in the US.

Miraclon's second line is based at a new facility in Weatherford, Oklahoma

The line, named Gemini, is sited at a new facility in Weatherford, Oklahoma and was officially opened in October.

The line forms a sister operation to the company's existing manufacturing facility in Yamanashi, Japan.

Designed to meet increasing industry demand for flexo-printed packaging, it will initially produce flexo plates for customers in the

US, Canada, and Latin America.

Miraclon was established earlier this year, when Montagu Private Equity acquired Kodak's flexo division in a \$340m (£262m) deal, but ground was broken on the project in April 2017, with the first Kodak Flexcel NX plate produced last October. The new line represents a \$15m investment.

Miraclon chief executive Chris Payne said: "This is a momentous occasion for Miraclon. Just six months after our spin-out from Kodak, we mark one of our first major milestones with the completion of this project, on

time and on target.

"While it demonstrates Miraclon's ongoing commitment to invest in and expand the market for flexographic printing, the second manufacturing facility also brings source of supply closer to a large portion of our customer base and expands

the manufacturing footprint of FlexCel NX plates to two sites."

The completion of the line follows other recent advances for Miraclon, including the launch of the solvent-free processing FlexCel NX Ultra system to the European market in September.



Edale set for 75th anniversary

Whilst known as a flexo press manufacturer, Edale has a strong foothold in the digital printing market as an integration partner

Established in 1945, 2020 marks Edale's 75th anniversary, during which time it has built a reputation as an engineering firm with expertise in all aspects of the printing process, and beyond. Whilst the company is recognised as a manufacturer of narrow and

mid web flexographic presses, Edale is also heavily involved in the digital printing industry as an integration partner. Its web transport know-how is utilised by the inkjet industry, for example, to ensure this growing digital printing technology can and is able to achieve ever-faster speeds and greater print quality.

As well as ingrained technical expertise, the

company is also rising to the challenge of environmental concerns.

This includes using LED curing on the latest flexo demonstration press installed in its showroom, and repurposing wooden shipping containers for its equipment into workbenches and furniture. Edale presses shipped in 2020 will include 'Ikea style' drawings, detailing how to convert the packing cases into a workbench to complement its quick-change die-cutting system. Regarding the installation of LED curing, Edale said the use of such technology from its chosen partner has shown that a power saving above 90% can be achieved over conventional UV arc systems, which results in a 75% overall power saving when taking the press and curing into account.

James Boughton, Edale managing director, said, "Power is a major concern and will only get worse as

the years pass by; power will not get cheaper it will only get more expensive."

"The bigger issue in the market today is how to reduce the unnecessary waste. Whilst 75 years old, Edale has quite a young management team and the environmental issues discussed on a daily basis are something we feel strongly about and want to help by reducing our own environmental impact, albeit in a small way."

"Going green is not easy and will take time for a company like Edale, however there is a common misunderstanding that going 'green' impedes business performance. This is not true, because our decision not to print waste at the show did not affect the number of leads generated and 2020 looks set to match the record growth and sales to be achieved in 2019, perhaps not something all analogue press manufacturers can claim" he concluded.



Altana acquires overprint varnish company Schmid Rhyner

The specialty chemicals group Altana is taking over the Swiss overprint varnish specialist Schmid Rhyner, thereby expanding its Actega division.

'In acquiring Schmid Rhyner, we are continuing to systematically pursue the Altana strategy of generating value-creating growth through targeted acquisitions,' said Martin Babilas, CEO of Altana.

Schmid Rhyner specializes in print finishing systems. In 2018, it generated sales of roughly EUR 50 million with around 80 employees. Founded in 1880 and headquartered in Adliswil, Switzerland, with a subsidiary in New Jersey, USA, the company sells its products in over 100 countries worldwide. In addition

to protecting packaging with matt and gloss coatings, Schmid Rhyner products achieve a variety of optical effects. The company also develops products for digital printing.

'With the acquisition of Schmid Rhyner AG, we strengthen our technology competence in this area,' said Thorsten

Kröller, president of Altana's Actega division. 'It enables us to open up new markets and application areas, especially in the fields of flexible packaging and digital printing.'

Actega is a division of the international specialty chemicals group Altana and develops and produces coatings and sealants, printing inks and adhesives for flexible and rigid packaging and for the graphic arts industry.



Tbilisi Named UNESCO's World Book Capital for 2021

Less than a year after its turn as Guest of Honor Georgia at the Frankfurter Buchmesse, Tbilisi has been named UNESCO's 2021 World Book Capital

As Publishing Perspectives readers know, the United Arab Emirates' Sharjah is this year's World Book Capital, and the 2020 designee is Kuala Lumpur. Last year's honored municipality was Athens.

Twenty-three years after the program's inception, the IPA continues to serve as a

key component of the World Book Capital advisory committee, reviewing applications and making recommendations to Azoulay's offices. In that role, the publishers association is joined by the International Federation of Library Associations (IFLA) and by key players in UNESCO, itself.

Guest of Honor Georgia became familiar to many in the international publishing community last year at Frankfurt as a powerhouse

among proudly individualized cultures committed to establishing their footprints in the world as centers of reading and writing. With its exotic alphabet and profound history of literary eloquence, Georgia seems to have found a contemporary and often political voice in the post-Soviet world, focusing with great care on maintaining and nurturing its unique linguistic heritage.

This sense of itself as a singularly expressive society will, no doubt, be evident in how the team in Tbilisi designs its year as World Book Capital.

Among events and activities, during the year, there will be libraries and a book festival for children; a state-of-the-art digital project for transforming books into games; and the rebuilding of the first Georgian publishing house.

Tbilisi will be the 21st World Book Capital. New Delhi held the title in 2003.



Nippon to represent Coaso's digital systems in India

Mumbai-based Nippon Color has been appointed as the pan-India dealer for Coaso's UV varnish and foiling systems. The firm will be responsible to promote,

distribute and offer technical assistance for equipment manufactured by China-based Coaso Technology.

The company has introduced machines, which

includes iCueJet 370 digital 2D/3D UV varnish and foiling printing systems, and iCueJet 420W, which is the roll-to-roll version for UV varnish and foiling, among others.

However, the company has bet big on the iCueJet 370, which focuses on the post-press efficiency and synergy, giving the print jobs visual effects and three-dimensional touch, with its perfect registration, stable productivity, and low-cost consumables.



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 4-12 January
 New Delhi, India
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 National Book Trust
 5, Institutional Area, Vasant Kunj,
 Phase - II, New Delhi-110070
 Tel: +91 (11) 26707778
 Email: nbtindia@ndb.vsnl.net.in
 Website:
www.newdelhiworldbookfair.gov.in



Pamex 2020
 International exhibition on printing
 and allied machinery industries
 6-9 January
 Mumbai, India
 Contact:
 Print-Packaging.com (P) Ltd.,
 F-101, Tower No.7, First Floor,
 International Infotech Park,
 Vashi Railway Station,
 Vashi, Navi Mumbai 400705, India.
 Tel: +91 22 27812093
 Fax: +91 22 27812578
 Email: varsha@print-packaging.com
 Website: www.pamex.in



Hong Kong International Stationery Fair 2020
 Trade fair for Stationery, Office
 Supplies and Educational Systems
 6-9 January
 Hong Kong
 Contact:
 Messe Frankfurt (HK) Ltd.
 35/F China Resource Building,
 26, Harbour Road, Wanchai,
 Hong Kong
 Tel.: +852 2238 9951
 Email: stationery@
hongkong.messefrankfurt.com
 Website: www.hkstationeryfair.com



Viscom 2019
 Live experience for signmakers and
 digital printers
 7-9 January
 Dusseldorf, Germany
 Contact:
 Reed Exhibitions Deutschland GmbH
 Anschrift: Völklinger Str. 4
 Deutschland - 40219 Düsseldorf
 Telefon: +49 211 90191-102
 Fax: +49 211 90191-149
 Email: csc@reedexpo.de
 Website: www.viscom-messe.com/



World Print & Communication Forum
 Theme: "Redefining Printing: -
 Brainstorm with World Leaders".
 8 January
 Mumbai, India
 Contact:
 INTERGRAF a.i.s.b.l.
 Avenue Louise 130A
 1050 Brussels, Belgium
 Email: info@worldprintforum.org
 Website: <http://www.worldprintforum.org/>



Consumer Electronic Imaging Fair
 8-10 January
 Mumbai, India
 Contact:
 All India Photographic Trade &
 Industry Association,
 C-3/6, Taj Building,
 1st floor, 210, Dr. D.N.Road,
 Fort, Mumbai - 400 001, India.
 Tel.: +91-22-22076201
 Fax: +91-22-22076202
 Email: info@aiptia.org
 Website: www.aiptia.org



Saudi Print & Pack 2020
 Int'l Trade Exhibition for Printing &
 Packaging Technologies
 13-16 January
 Jeddah, Saudi Arabia
 Contact:
 Riyadh Exhibitions Co. Ltd
 Olaya Road Postfach
 P.O.Box 56010
 SA - 11554 Riyadh, Saudi Arabia
 Ph: +966 11 229 5604/Ext. 509
 Fax: +966 11 229 5612
 Email: noel.puno.recexpo.com
 Website: www.saudi-pp.com/



Print Summit 2020
 Annual Knowledge Seminar
 23 January
 Mumbai, India
 Contact:
 The Bombay Master Printers'
 Association
 216 Neelam, 108,
 RG Thadani Marg
 Worli, Mumbai 400018
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 Email: printsummit@bmpa.org
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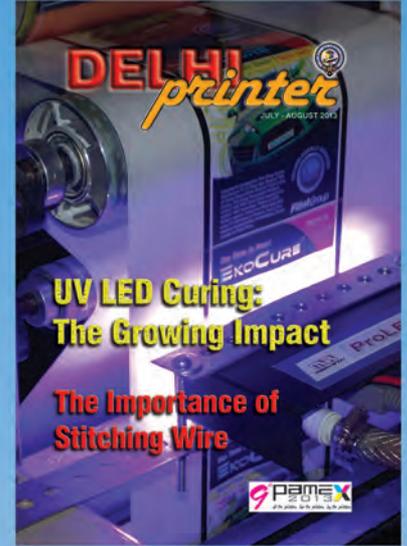
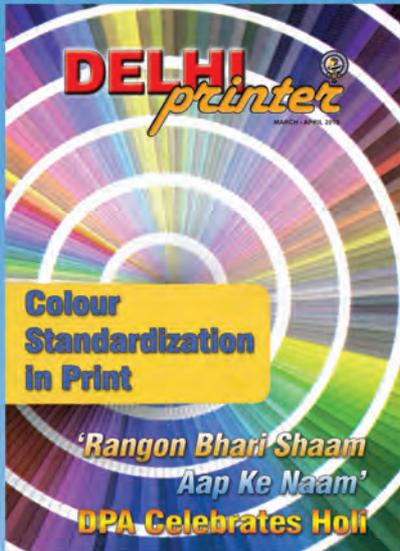
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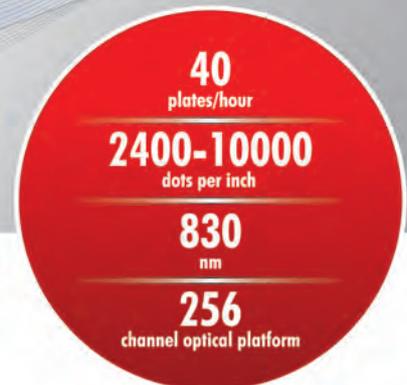
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