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YEARBOOK

& DIRECTORY 2015

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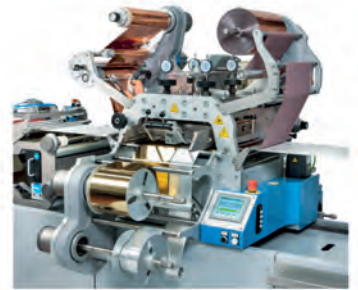
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Editor's – welcome

The content of the L&L 2015 Yearbook paints a picture of quality, standardization, automation, advancement and engagement in the industry

The Labels & Labeling 2015 Yearbook features content provided by leading industry experts and our global editorial staff. The most recent World Label Award winners are highlighted, and there are supplier product listings for reference. Together the articles paint a picture of quality, standardization, automation, advancement and engagement.

The packaging supply chain has tightened its processes at all levels in order to compete, and we've seen suppliers introduce advanced technologies – faster and higher resolution inkjet presses with in-line finishing, fully automated flexographic presses, software systems that reduce process complexity, robust inks and coatings that deliver new levels of performance and so much more – all of which empower converters to keep profit margins intact, improve efficiencies and respond more quickly.

E-commerce sites such as Amazon in the US and Alibaba in China continue to change the 'retail' landscape in an effort to meet shopper demands for instant gratification. Industry leaders have already adopted systems and technologies that allow their

businesses to react accordingly – and they will flourish.

Brand owners are more aware of the tools the value chain offers to interact more effectively with consumers both at retail and online, but there's more knowledge to be shared.

Long-term success in today's business world requires a focus on waste reduction and sustainable processes. Billion dollar enterprises are changing their business models in wholly new ways to reduce harmful pressure on the planet. Excuses are no longer acceptable. Be green, or step aside.

Yes, being green will require an investment. What return doesn't? Be prepared.

“Long-term success in today's business world requires a focus on waste reduction and sustainable processes”

Now is the time to invest in process improvement tools that will boost product quality and performance, reduce costs, speed time-to-delivery, account for variability and keep your business in the front lines. Technical expertise will win, but workflow, reliability and a firm sustainable stance play a crucial role.

Traditions are evolving across our global network. Associations are seeing many young members step up to lead well-known and new organizations. Retiring mentors have found confidence in the next generation and their knowledge and ability to evaluate business in a modern light. Change is inevitable. Flexibility and adaptation are required.

The last year has been an exciting one filled with progress and fresh ideas, with more milestones to mention than space available in this annual compilation. I hope this year's content provides you and your teams with fuel to find success in 2015.

Danielle Jerschefske
 Labels & Labeling Yearbook Editor



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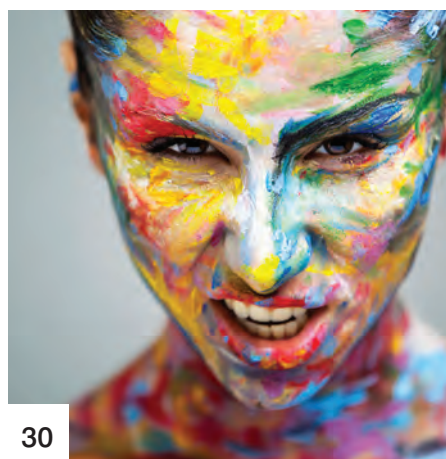
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Brands to transform business with digital as currency

Mike Ferrari, the founder of Ferrari Innovation Solutions and a packaging industry consultant, shares his analysis of value chain evolution as digital becomes standard in enterprise procedure

The conversation at Dscoop 2010 (HP's Digital Solutions Cooperative) amongst a panel of brands, including Frito Lay, Bic and P&G, was about the use of digital printing as a proofing, prototype and samples technology. Brand awareness of new digital technologies and the potential to positively impact modern supply chains was very low – or nonexistent.

The panelists used legacy metrics to

describe digital printing; the slow speeds (most presses achieved speeds around 30ft/min) and higher piece cost constrained thinking to short-run and versioning capability only. This was typical of that time period.

Brands were suffering losses due to the economic downturn and packaging was held in commodity status while cost savings ruled the day.

Mind shift

In just four years a major shift has occurred. Brands are trying to figure out how to engage shoppers in a world where connectivity, mobility and social media are today's governing forces. Today, brands need to regain growth and have been exploring ways to create relevancy, engagement and interaction through packaging.

There are numerous brands that have

“Brands are trying to figure out how to engage shoppers in a world where connectivity, mobility and social media are today’s governing forces”

enhanced the consumer experience in these past four years that could only be done using digital printing. To name a few brands who have leveraged the power of digital printing: Heineken, Lindt chocolate, Danone, L’Oreal, Tide, Kleenex, Goldfish, Coca Cola and more. The ‘Share a Coke’ seasonal promotion campaign leveraging mass customization has spread to more than 80 countries since first being introduced in Australia in 2012. (Read Ferrari’s piece in Yearbook 2013)

Other brands are beginning to take notice as they realize myths are being busted. Digital printing has been used to manage inventory, create relevancy on retail shelves, personalize packages for online purchase, connect social media to packages and print long run jobs.

To Reach the tipping point

What is the barrier to accelerating digital printing? There is more awareness that needs to occur despite this shift. The ability to print ‘what you need’, ‘when you need it’ and ‘how you need it’ is a reality and needs to be more broadly understood by CPG’s.

Brands should be looking more toward their future and not just at the next promotion. Brands will continue to be challenged by consumers to be present across all shopper channels (retail shelves, online and social media). From a brand perspective, there has never been a greater need to continually create more flavors, scents, and sizes in order to appeal to the constant demands of consumers.

Brands will need to master the ability to mass customize in order to thrive through these times of transformation. This results in huge complexity for brands as SKU proliferation requires a lengthy chain of events to occur in an analog workflow.

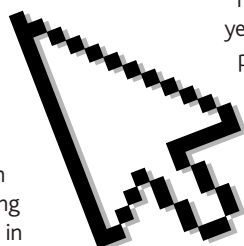
The way out of this mess is to reinvent the supply chain for package printing to an all-digital workflow. The reinvention of the package print supply chain means an automated workflow with all digital components. What was once a stretching vision is today a modern reality.

Automated connectivity

Mobile and social technologies have forever changed the conversations between and behaviors amongst brands and consumers. Digital package printing provides brand managers the creative fuel to connect consumers, the internet and packaging in ways never before possible. It is important for brands to begin the journey that connects these dots, to innovate and engage consumers in ways they want to be engaged.

Interactive and connected packaging will accelerate as shopper behaviors continue to evolve with the internet. Brands prepared to experiment will be rewarded. It will be a determining factor of whether a brand thrives or becomes a memory.

The same will be true for the print industry: those that seek to innovate and increase their capability over time will thrive. The ability to drive data organization, report analysis and packaging methods that align with engagement, value chain optimization and growth objectives is crucial.



Transition strategy

Printers have a great opportunity during this time of transition. Those choosing to step into the future can help create awareness to their clients and rise above commodity status.

The constant worry over piece cost to the client is missing the bigger picture of offering system savings. This is a moment for printers to reevaluate their business and rethink their strategy.

The days of being a label printer, a flexible film printer or a folding carton printer is blurring with the emergence of digital printing. Digital printing presses do not care what the substrate is and can handle multiples types.

HP Indigo launched wide format (33in) digital presses this year. This opened the door for folding cartons and flexible film packaging to adopt new technology. Highcon has launched the Euclid II that can digitally die cut folding cartons as well as label sheets.

These hardware innovations are opening up the industry to better serve rapidly changing consumer needs. The packaging industry continues to grow proportional to the population growth rate; modern consumers will continue to purchase brands in decorated packages.

“Digital printing has been used to manage inventory, create relevancy on retail shelves, personalize packages for online purchase, connect social media to packages and print long run jobs”

Territory stance

The commercial printing industry has suffered a decline in print media over the last 12 years. Some are finding opportunity to grow by adding digital package printing to their digital assets.

Consolidation in the packaging industry through mergers and acquisitions will continue because of several contributing factors.

- Large companies are struggling with organic growth
- Purchasing smaller companies becomes favorable to increase their ‘book of business’
- Less innovative printers will have to sell at a fraction of the dollar
- Digital printing experts become targets as larger printers want to jump into the digital future

New digital technologies including front- and back-end software, print process automation, digital finishing and uninterrupted fulfillment and distribution will command attention moving forward. Those suppliers invested in supporting brands make successful changes within their business models and reap the benefits will win the long haul. Is your operation prepared to survive the transformation?



About the author

Mike Ferrari is the founder of Ferrari Innovation Solutions, LLC and a packaging industry consultant. Retired after 32 years of service from The Procter & Gamble Co., he is dedicated to educate, guide, & inspire those in the packaging industry to grow. Follow him on Twitter via @gamechanger78

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Craft beer label and brewing industry trends

Isaac Arthur of CODO Design shares brew market insight based on his creative experience supporting the sector's rise in demand

In my first year as a college student majoring in biology, the best thing I picked up over the two semesters was an appreciation for locally brewed beer. I learned about different beer styles and brewing techniques and found myself spending minutes ogling beer packaging whenever I was in a liquor store. The colors and illustrations, and variance in copy both on the cases and labels caught my attention. Sometimes the message was short and to the point while a neighboring brand was lyrical with little mention about the beer inside.

After enough time, I decided to take this fling – this relationship – with craft beer to the next level by ditching biology in favor of design school. There I learned more about what goes into making beer packaging so appealing.

At CODO Design we've been immersed in the food and beverage industry, working with breweries, wineries, distilleries, bars, restaurants and food artisans since 2009. As both a consumer and a craftsman I have witnessed patterns emerge throughout 2014 that will continue heading into next year:

1. Branding and packaging as a positioning tool

The biggest trend we've seen this year (and for the last few, actually) is an overall better looking beer shelf. More and more breweries are investing in quality packaging and branding as they start to realize

the importance of presentation, story and positioning to gain a foothold in an increasingly crowded market.

We've seen this with our own business after designing a one-off seasonal can for a local nano brewery; and again after traveling across the country evaluating brand strategy and package design work with groups of experts. Across the board, more breweries are factoring growth and development expenses into their business plans, which makes sense – you'll face stiff competition.

“More and more breweries are investing in quality packaging and branding as they start to realize the importance of presentation, story and positioning

2. High-end label materials

This is closely related to the first point: many breweries, as part of seeking professional branding and package design help, are investing more money into better quality label and package printing production.

We're seeing more 'toothy' label paper stock on bottles with more embossing and foil. There's also a big trend toward matte finishes on cans. The matte finish on cans, particularly on shrink-wrap sleeves, is a

subtle way to make a product look and feel better. To some, shiny packaging can look cheap and connote corporate.

3. Premium bombers

This is somewhat of a niche, for the consummate beer drinker with more money than sense. Only joking. Premium bombers (22oz bottles) are becoming central to large festivals and seasonal releases,



TTB resources

FAQ section:

http://www.ttb.gov/faqs/alcohol_faqs.shtml#alfd

Mock reference label

<http://www.ttb.gov/pdf/brochures/p51903.pdf>

and generally contain big sour beers, barrel-aged imperials and other absurdly high alcohol experiments.

They're often capped with wax and you may even find some with cork-and-cage tops. The high alcohol, scarcity and cost often lead to these being cellared for a few years like wine.

4. Hand-drawn illustrations

When I first got into beer packaging, most of what was on the shelves looked the same. Labels revealed engraved illustrations and the bottleneck held ribbons, old world indexes of quality. Most of the craft beer leveraged the same quality messaging.

Today we're seeing more breweries hang their hats on creativity and independence. This manifests in fun ways like colorful illustrations and hand-rendered typography. One of my favorite examples, and hometown Indiana hero, 3 Floyds, has been doing this since their inception. And their bottles still jump off of shelves all these years later.

5. 'Kraft' beer versus 'Craft' beer

This trend is a direct response to the growth in the craft beer sector. If you see a beer that has all the hallmarks of craft branding – aesthetic materials, smart illustration, cool typography, a good story sitting on the top shelf amongst an acre of Budweiser or Miller Lite cases, there's a good chance that brand is owned by a larger brewery. Batch 19 and Blue Moon are examples. Is this disingenuous? Is this unethical? Does this matter? Will this impact the label markets?



About the authors

Isaac Arthur and Cody Fague graduated from the Herron School of Art and Design in 2009. Based in Indianapolis, Indiana, the duo founded CODO Design, a branding, packaging and web design firm focused on working with small businesses, the food and beverage industry and not-for-profits. www.cododesign.com

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Learning to love the TTB beer label approval process

The federal process for gaining approval of spirits labels is complex, Cody Fague of CODO Design navigates

With experience in craft beer branding and package design, come lessons in navigating the United States government TTB (Alcohol and Tobacco Tax and Trade Bureau). The bureau is the federal gatekeeper for approving beer packaging, among other products. The process is often fraught with peril and requires patience.

1. Factor the TTB's backlog into project timelines

The approval process can kill your timeline. TTB is allowed up to 90 days to review your labels and while it doesn't always take that long, it's a safe benchmark for managing label production and canning/ bottling in a product's lifecycle. Our first time designing beer labels was eye opening. We were dead on schedule and then, whack – our client had to sit for nearly sixty days awaiting approval. We were able to use the time to develop other promotional pieces and responsive website. Now planning for appropriate approval time is standard in our delivery expectations.

2. Read, reread and re-re-read TTB's PDFs

This probably goes without saying, but download and read all of the TTB's guidelines. <http://www.ttb.gov/beer/bam.shtml>

This is a good way to figure out the larger components of the label requirements, like how to list the beer's style, ABV, brewery location and government warnings.

3. Orient yourself with current, on-the-market labels

This helps us out a lot when when branding breweries. Before designing new labels, we review several varieties of competitive products with primary container decoration leading the market. This helps with reviewing how the different design elements can be laid out.

4. Don't limit your label design

This is aimed at brand owners and designers who are looking through the dozens of pages of TTB guidelines with the aforementioned sense of dread – make sure to view these rules more as parameters rather than a roadblock. Consider overall positioning and branding, and design the hell out of those things. Remember, you'll be



duking it out with countless other brands in the wild – make it count.

5. Save your actual TTB submission files correctly

We almost included this nugget with one of the earlier points, but it's so important that it warrants its own section. TTB now formally requires that submitted files be less than 450kb in size, in jpeg file-type and RGB color mode.

6. Be prepared for small, hair-pulling edits (and the additional approval time)

At the risk of sounding pessimistic, make sure to factor in extra time for unforeseen revisions. No matter how carefully we, our brewery partners, and their lawyers review label submissions, it always seems like TTB will find something to push back on.

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Packaging regulations:

Will you master the changes and benefits?

Stephen Kaufman, CTO at SGK, discusses updates in US and EU packaging legislation

Many US and European Union shoppers and consumers merely glance over nutrition information on food labels – or fail to comprehend it when they do pay attention. But that’s about to change. Not just because consumers are growing ever more conscientious about what they eat, but because EU and US regulations will ensure that nutrition information is easier to understand and much harder to overlook on the label.

No doubt, this will drive more consumer engagement with packaging. As for brands and manufacturers, some will see the regulations as a burden to be avoided for as long as possible and minimized wherever possible. But others will see it as an opportunity to become more efficient and accurate – and more profitable in the long term. Let’s start with the vital background.

The new regulations – European Union

In the European Union, EU Regulation 1169/2011 establishes a new legal framework for the nutrition information presented to consumers. Ratified in September of 2011, with full compliance

“EU and US regulations will ensure that nutrition information is easier to understand and much harder to overlook on the label”

for most companies required by December 13, 2014, this new regulation encompasses more than 50 pages of rules that standardize the presentation of food information

and lower the administrative burden of tracking data. And, most important, the rules ensure that consumers have complete, unambiguous, highly legible information about the foods they plan to eat prior to purchase. Below the main features are outlined:

Well-organized allergen information

Prior to the new regulation, many products displayed an ‘Allergens Table’ somewhere on the package. But with the new regulations, all allergens must be in the list of ingredients and highlighted ‘through a typeset that clearly distinguishes it from the rest of the list of ingredients’. This keeps mom from having to read the ingredients first and then scour all the other panels to look for egg yolks, whey, crustaceans or products made with a part from one of the 85,000 extant species of mollusks.



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FDA Proposes Updates to Nutrition Facts Label on Food Packages, February 27, 2014.

<http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm387418.htm>

Implications:

- Redesign of hundreds of thousands of packages across Europe
- Potential to leverage for a more trust-based relationship with consumers

More prominent secondary information

The new European regulations require clear expression of many facts not related to the ingredients themselves – such as net quantity, use by date, storage conditions, country of origin and instructions for use. While there are some exceptions based on the overall size of the product, most packages will show more information, in a larger format, than ever before.

Paradoxically, there is a push from the sustainability end of the packaging spectrum to lower the amount of post-consumer waste, while at the same time, the 1169 rules dictate the need to hold more information. Expect to see your favorite packages stuffed even more tightly with info.

“Most packages will show more information, in a larger format, than ever before”

Implications:

- Serious design challenge for all brands and manufacturers
- Opportunity to stand out against competitors who don't handle the redesign as deftly and as attractively

Clarity online

The most interesting part of the new EU food labeling regulation concerns 'pre-packaged foods offered for sale by means of distance communications'. For example, with a candy bar sold through an online retailer such as Amazon, the regulation states that 'information shall be available before the purchase is concluded' and 'without charging consumers supplementary costs'. This means brands must

coordinate the information printed on the package with information displayed on any number of online retail sites.

Implications:

- Tremendous responsibility to get lagging online information in sync with the physical package
- Could remedy widespread consumer frustration with incomplete and out-of-date e-commerce product information

The new regulations – US

New food labeling regulations are coming to the US as well. For example, the Food and Drug Administration announced on February 27, 2014 that there will be:

- Much more prominent display of information such as serving sizes and calories
- A requirement that serving sizes reflect what people actually eat at a typical sitting not the smaller amount that falls inline with daily caloric intake recommendations
- More prominent display of daily value percentages for nutrients, along with information about what the values mean
- based on new understanding of nutrition science – such as requiring information about added sugars, updating the daily values for certain 'nutrients of public health significance', emphasizing the importance of avoiding certain kinds of fat rather than focusing on total calories from fat and so on

At the same time, there has been tentative activity in the US Congress around requiring prominent front-panel information such as the percentage of wheat or whole grains in products marketed as multigrain or whole wheat, as well as the inclusion of sweeteners, coloring or flavoring. Proposed new regulations would also prohibit misleading information such as touting low cholesterol in a product containing significant amounts of trans fats.

Although as of mid-2014 the legislation was still in subcommittee, the value chain should be aware that such legislation would require new label formatting.

Implications:

- Serious practical challenges for brands and manufacturers over a short time frame
- Clear opportunities to build consumer trust through information transparency and superior package design strategies

The challenge

Consumer trust is a most valuable asset. And of course, brands are aware of the importance of complying when governments regulate safety into branded products. One minor mistake could have a long lasting, even permanent, impact on brand image.

“Smart brands will use new food labeling regulations to refresh the brand with new package design”

The key here is handling the changes in a thoughtful and systematic way. Beyond avoiding mistakes, smart brands will use new food labeling regulations to refresh the brand with new package design, messaging, promotions or even nutritional improvements to the product itself.

All of these possibilities are best addressed early and holistically – not dealt with in isolation from the need to comply with new labeling requirements. Although we've focused on food labeling, it's worth noting that pharmaceutical companies face the same kinds of regulatory challenges – and should also be looking for ways to turn labeling requirements into opportunities to improve brand performance.

The solution

Both food and pharma industries can make it to the other end of the wire by employing a centralized system for managing copy, artwork and digital assets across all the brand's manifestations globally.

SGK's Blue! system helps brands manage graphics and copy across media to ensure accuracy and consistency. Blue gives brand owners the ability to centralize product information and brand assets for easy control, and to automatically distribute approved versions across channels to simplify regulatory compliance – and assure overall package quality and appeal.

There must be a plan in place to manage these demands effectively through the supply chain. Managing the many print and digital redesigns that will be required to deal with new regulations will add complexity in PLM (product lifecycle management). Is your business ready?

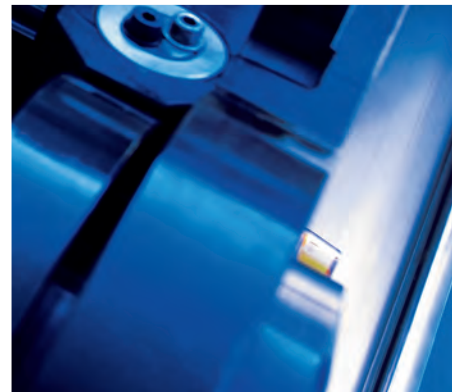
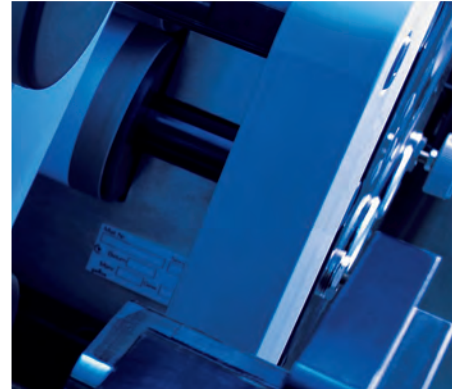
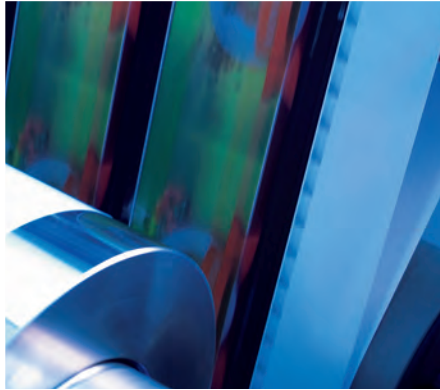
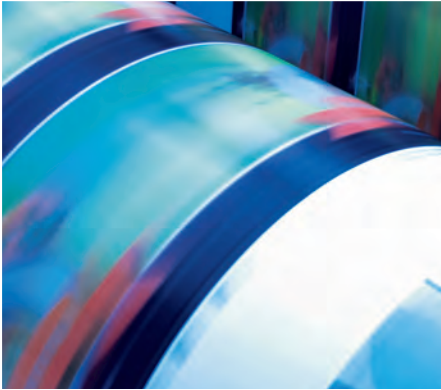


About the author

Stephen Kaufman is CTO for SGK.

He directs the development and implementation of strategic technology solutions for SGK around such issues as globalization, supply chain integration, process automation and sustainability.

Kaufman pioneered the development of the industry's first digital asset management system designed specifically to meet the stringent requirements of the consumer products packaging sector. Today, Blue! gives brand owners the ability to centralize product information and brand assets for easy control and automatic distribution. <http://www.bluesoftware.com>



Success and security for the labelprinter

Will linerless labels stick?

Jackie Marolda of AWA talks about linerless labeling and its place in the global market

Interest and developments in linerless pressure-sensitive labels have grown in the last five years, driven by several market influences: cost, sustainability/recycling, and machinery adaptation. Linerless labels offer advantages in these areas over traditional lined pressure-sensitive laminate, but there are limitations to the opportunities as well.

Most of today's market demand for linerless has been created in the lined pressure-sensitive label platform. Here, the prime drivers are the opportunity for waste reduction and cost reduction. Although recycling schemes are available for used silicone release liners, most still end up as waste in landfills. Today's market interest in sustainability is resulting in greater interest to options for spent release liners, with linerless technology representing an opportunity to eliminate the production of the waste product from the laminate construction.

Cost reduction remains an important consideration in choosing linerless over lined pressure-sensitive labels. As the release liner represents around 30 percent of the cost of a pressure-sensitive laminate, changing to linerless labels is expected to deliver significant cost savings. In reality, since the removal of the liner does not mean that additional processing of the label web is not required (e.g. siliconization and adhesive coating), the cost reduction realized is much less. It is claimed that linerless labels can save up to 15 percent of the total applied costs of labels made

from pressure-sensitive labelstocks manufactured by the major laminators, or laminated on 'do-it-yourself' coating machines.

Shape and speed

Today's linerless products generally constitute a roll of printable face material, silicone coated on the top, and adhesive coated on the underside. In this construction, the silicone-coated face acts also as the release liner, and eliminates the need for an additional layer in the pressure-sensitive laminate. This

“Cost reduction remains an important consideration in choosing linerless over lined pressure-sensitive labels”

construction can deliver cost savings, but, because the linerless web has no support, the opportunities to vary label shape are extremely limited, and the printed web must be separated into single labels at the point of label application.

Several of the greatest strengths of traditional lined pressure-sensitive materials are the ability to di-cut intricate shapes and the rapid application speeds.

Success for linerless labels has been seen in prime label applications where intricate die-cut shapes are not needed, such as wraps and sleeves for fresh foods and meats, and postage stamps.

Speed is the other key element in the success of application equipment for linerless materials – especially for prime label applications. When brand owners or contract packagers are looking at their options, they consider the total applied cost, not just material costs. Slowing down a packaging line can have a significant impact on the end product's cost. Speeds can vary greatly depending on the product, but regardless of the actual speed, the consistency of the web and its ability to feed and dispense labels accurately are imperative.

Research shows that the industry continues to question whether linerless is capable of replacing traditional pressure-sensitive lined labels with the speed, accuracy and consistency that is necessary to maintain efficiencies in packaging operations.

Another factor that limits the adoption of linerless for prime label applications is the value chain for the traditional lined pressure-sensitive market – a strong and mature value chain including a vast, competitive supply of self-adhesive laminate materials, and a wide installed base of high-speed application machinery.

The established value chain represents a successful business model not likely to be replaced by today's linerless solutions.



Left: Waitrose brand meat products with Ravenwood linerless label technology

Right: The City Kitchen brand with Ravenwood linerless labels





Waitrose brand meat products with Raventwood linerless label technology

VIP adoption

While linerless' use remains limited for primary product labeling applications, linerless labels today find their largest market in variable information print, and are first and foremost functional information carriers – barcodes, product numbers, and other non-graphic data. Typical applications are product tracking in warehousing and logistics, airline baggage tags, price weigh labeling of retail items, particularly foods, and in courier delivery systems. These applications are based on simple, often hand-held or desktop equipment that prints and dispenses labels – usually thermal transfer printed – although relatively high-speed automatic thermal transfer printer/applicators are now available in the marketplace.

“Linerless used in wrap/sleeve food packaging performs a dual purpose of promoting a brand and providing the functional details of its price and content”

Significant activity has been seen in the past several years by variable information printer companies to include print and apply machinery that utilizes linerless materials in their product offering. New printers are available with rollers designed specifically to allow for linerless labels. Existing installed printers can be retrofitted with new rollers that are specially designed to handle the exposed adhesive that linerless has. The installation and use of these machines will continue to drive significant growth of linerless labels for warehousing and transportation applications.





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Where the functionality and capabilities of linerless technology work, they are providing benefits and solutions that are becoming more widely accepted and replacing traditional lined pressure-sensitive label applications. Linerless labels are also gaining success in new categories for labels that previously did not involve a pressure-sensitive label at all.

“Most label users expect to see increased linerless penetration in the medium term in the established transportation and logistics and retail price weigh applications”

Wrap/sleeve food packaging has found success with linerless labels, which are replacing a decoration method that was previously a cardboard sleeve with a small amount of tape.

Linerless used in wrap/sleeve food packaging performs a dual purpose of promoting a brand, and providing the functional details of its price and content. This is an active market segment today, with many label applicator machinery manufacturers working with contract packers, brand owners, and major retail chains to develop solutions that offer relatively high-speed label application. These applications are extensively used for tray packed fresh meats, poultry, fish, and other prepared foods. This segment capitalizes on the benefit that linerless offers in two-sided printing prior to silicone and adhesive coating. As well as offering the option of visually appealing color branding of a label, which is often wrapped around a tray pack in the shape of a letter 'C', the label can perform food rotation functions, and additionally offer space on the reverse of the label for promotional/recipe information.

The successful use of linerless material in tray packaging for fresh meats,

poultry, and fish in supermarket retailing is driving additional installations of the systems needed to take advantage of linerless strengths for these applications.

Because they are adhered to the tray, linerless labels also provide tamper-evidence and product authentication, unlike the cardboard sleeves they are primarily replacing, which can be removed from lower-priced goods by dishonest shoppers.

Most label users expect to see increased linerless penetration in the medium term in the established transportation and logistics and retail price weigh applications. These areas, along with wrap/sleeve food packaging will see the highest growth.

Although there is activity today in the area of linerless labels (materials, coating equipment, and laminating equipment), it is clear that there is no single definition for 'linerless' and no standards for what should and can be used. As a result, there is not yet a clear 'winner' in the development of linerless as a material, a technology, a coating method or an application method.

The future likely holds more development and investment throughout the value chain – material suppliers, printers/converters, application equipment, waste/recycling, governmental regulations – that will influence the opportunities and limitations for the adoption of linerless labels.



About the author

Jackie Marolda is vice president/senior consultant at AWA Alexander Watson Associates.

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End user trends in China

Kevin Liu, Labels & Labeling's China editor, reviews end user trends as the label market matures

While the rate of growth for the labels market in China has slowed, data still shows 10 percent growth in recent years keeping the nation as one of the fastest growing markets in the world. The constant speed of business growth, rising populations and an increasing middle-class has increased the demand for branded goods. The potential development of the self-adhesive labels market is particularly of interest based on the change of several end users in across several market verticals.

Brands switching to PS

Following the growth of local brands in China, product managers have gained clearer brand awareness and are therefore paying acute attention to the package design and brand image. Therefore the market has experienced a significant adoption of pressure-sensitive labels over the last year.

Avery Dennison China has sound cooperation with many local brands, such as the China Great Wall Wine Company. The global materials supplier hosted customers and end users together to celebrate its 20th anniversary this fall. VP and GM of Avery Dennison in Asia Pacific, George Gravanis, addressed the crowd, 'Since Great Wall adopted adhesive labels, the new design shows the company culture and also displays their innovation virtue. Additionally, the popular Chinese dish-washing detergent, Liby, switched to a clear-on-clear self-adhesive label to differentiate the brand on supermarket shelves, and convey their

high-end image through packaging.'

The movement has been seen in the beer market as well. Ritrama cooperated soundly with local beer brand, Huanghe Beer, to move towards transparent washable adhesive labels.

PS labels for high-end mineral water

From the data provided by China Beverage Industry Association (CBIA), the growth rate of packaged drinking water is up 20 percent from 2013. China's

beverage market as a whole experienced a growth rate of 11-12 percent in 2013. The high-end drinking water business has climbed to the top. In this battle, the label plays an important and valuable role in communicating to consumers.

Yang Xin, marketing manager of Ritrama China, regularly observes the mineral water label market. She said, 'Previously, most brands adopted shrink film labels due to their low cost and capability of batch production. However, high-end markets, generally, have adopted adhesive labels because they show a better sense of layering and dimensions when compared to shrink film, and they offer better brand images.'

The leading brands in the traditional drinking water market, such as Evergrande Spring, Wahaha oxygen-rich water and Master Kong natural mineral water have changed their packaging from shrink film labels to adhesive labels for their high-end products series. The consumer response has been positive. Yang Xin continued, 'And we saw that Wahaha, Master Kong and Evergrande install automatic labeling production lines at the beginning of the year.'

In addition, a few smaller enterprises and leading brands found in north China, Ganten and Angssuto for example, have switched the packaging of their high-end mineral water products to carry self-adhesive labels.

Suzhou Jan Tan Packaging & Printing Company installed one Gidue M5 and one Omet X4 Flexo press in 2014 in order to meet the increasing demands of adhesive



label for high-end mineral water products.

Kevin Huang, the vice general manager of Suzhou Jan Tan, explains, 'We can see a great shift in mineral water products adopting pressure-sensitive transparent films, moving away from shrink film. While the cost may double, the decoration technique highlights the product quality and adds differentiation when consumers are choosing purchases at retail. The difference between a high-end label and middle and low end label is approximately RMB 3.50 Yuan (.60 USD).' Huang feels that the low-end drinking water products could also change their labels following the decreasing overall cost of self-adhesive labels in China.

E-commerce logistics label

Data from the China State Post Bureau shows that the courier business in 2013 accounted for 9.2 billion pieces with numbers increasing year over year at a rate of almost 30 percent. 2014 data showed the quantity of courier orders through the end of October to already be 10 billion pieces.

Online shopping has become popular in China. Alibaba, China's largest B2B and B2C online retailer, sold in excess of RMB 35 billion Yuan (5.7 billion USD) on the Shopping Day on November 11, 2013. This resulted in more than 188 million pieces of couriered products and identification labels.

Qiao Li, the industry expert and consultant of Printing and Printing Equipment Industries Association of China (PEIAC), said, 'Courier receipts mostly consisted of carbonless copy paper in the past, but in recent years, three-layer self-adhesive logistics labels have grown rapidly.'

China and the Environment

Environment protection is attracting more attention in China, particularly waste paper recycling. On Oct 17, 2014, Avery Dennison began cooperation with Taiwan Yuen Foong Yu Group and its subsidiary Chung Hwa Pulp Corp, and launched its release liner recycling project in China. Together the companies have targeted to recycle 1,000 tons of glassine paper in 2015 with a commitment to improve on this figure in the future.

Glassine release paper represents a large proportion of self-adhesive label material in China. The task is not easy as production facilities are spread throughout China, and end users are not particularly interested in participating in such a project. The recovery will begin in east China and extend to south China and other areas. The recycled Glassine body paper will be used to produce corrugated cartons.



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Projecting growth in India's economy

Aakriti Agarwal looks at where growth will come from in the Indian economy and how this will benefit the label and packaging market

One of the key concerns over the last few months has been looking for ways to revive business sentiment. Restarting the investment cycle is the key to fueling Indian economic growth. Announcements from the NDA government have already created positive sentiment in the market. However, efforts to attract foreign investments and putting India back on a high growth path need to be supported by some policy amendments.

Indian GDP growth for 2014-15 is expected to be between 5.4 and 5.9 percent. Already in the second quarter, 5.7 percent growth (up from 4.6 percent in the previous quarter) was faster than expected. This is higher than the sub-five percent that has been seen in the last two years. The retail industry accounts for approximately 15 percent of India's GDP. While the economy looks at better growth prospects over the coming years, one of the major supporting factors for the retail industry is Foreign Direct Investment (FDI).

The Department of Industrial Policy and Promotion (DIPP), the body that makes FDI policy, allowed a ceiling of 51 percent in multi-brand retail trading in September 2012 under the UPA government. As per

SEBI rules, foreign portfolio investors (FPIs) can own a maximum of 10 percent of a company's equity share as an individual and 24 percent in aggregate in Indian companies. The NDA government however is considering allowing FPIs to own a majority stake in retail companies. This would not only give more options to foreign investors, but also allow Indian retail players compete with global retail giants. The Indian retail market is expected to cross 750 billion USD by 2015 of which organized retail constitutes eight percent.

A trend emerging from this is the growth of e-retail fueled by big e-commerce deals. Funding to major players like Flipkart who raised one billion USD in July, followed by Amazon's announcement to invest two billion USD in India, supports the fast-growing online retail market. Since January 2012, investors have ploughed more than three billion USD into e-commerce firms (according to VCCEdge and Mint research), of which more than two billion USD has been invested in 2014. Although e-retail is still a very small part of the 518 billion USD (according to research by Deloitte) Indian retail market, a study by Technopak

predicts that India's e-retail market will reach 32 billion USD by 2020 from the current 2.3 billion USD mark.

"In 2030, India alone will account for 23 percent of middle-class spending globally, amounting to nearly 13 trillion USD a year"

India's middle class is the largest contributor to this growth. In 2030, India alone will account for 23 percent of middle-class spending globally, amounting to nearly 13 trillion USD a year.

India's labels and packaging industry will benefit from this surge in demand. India's Prime Minister Narendra Modi's campaign 'Make in India' is aimed at growing manufacturing from the current 12 percent of GDP to 25 percent by 2022. "In 2030, India alone will account for 23 percent of middle-class spending globally, amounting to nearly 13 trillion USD a year"



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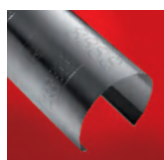
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Label industry training for the future

Mike Fairley looks at the need for enhanced education and training for the label industry and assesses the impact that the launch of the Label Academy is expected to have on the industry's future

Look back over the history of the printing industry and you will find that it has had an enviable and long-established, almost elitist, reputation. Indeed, there can be little doubt that for many years printing was seen as being amongst the best of the industrialized manufacturing sectors.

Because of the nature of the industry, print shop employees were some of the earliest to be able to read and write, were deemed to be well-educated, had an excellent training and apprenticeship system, and were believed to be amongst some of the best paid – particularly in the mass communications sectors of newspapers, books and magazines.

Even up to the mid-20th century and beyond, printing was still regarded as at or near the top of the craft-based industrial sectors, had excellent printing colleges and apprenticeship schemes and was able to attract some of the best entrants. Text books covering typesetting, conventional platemaking and the letterpress and offset printing processes were readily available.

Today, the traditional printing sectors and technologies are largely in decline. The internet, digital publishing, interactive media and such are replacing many of the old printing markets and applications, with printing rapidly evolving into new and more specialized, fast-growing sectors such as package and label printing, which have even greater knowledge requirements and demands than any of the older craft sectors.

The old craft skills of typesetting, camera operating, production of stereotypes, elaborate make-ready, etc, have all but disappeared to be replaced by new technologies involving digital origination,

multi-process printing using conventional and digital printing, hot and cold foiling, new types of packaging and label substrates, as well as all kinds of developments in interactive, tactile and multipage label and packaging solutions.

It has been disappointing to see that as the modern print industry has evolved there has been a global decline to an extent in excellent, standardized, certification-based print industry education and training – the measures of a successful industrial sector – which has rather failed to keep up with the ever-growing and fast changing production demands of today, particularly in the world of labels.

Pressure-sensitive labels alone undoubtedly have the widest range of materials to be printed, the widest range of adhesive types, the widest range of conventional

“There has been a global decline in excellent, standardized, certification-based print industry education and training”



and digital printing processes, the widest range of in-line finishing operations and some of the most challenging environment and sustainability requirements. Yet where are all the specialized textbooks, dedicated label and package printing training centers and colleges, knowledgeable and independent instructors to impart all of this knowledge to a standard global syllabus and certification program?

Well, as of Labelexpo Americas 2014, these issues are now being addressed with the launch of the Label Academy, a global education and training resource which has been especially created to provide, initially, a unique resource for the pressure-sensitive label industry its employees, industry suppliers, designers and label users. Longer term, it is expected to be extended to other specialized label sectors, such as sleeving, wet-glue and in-mold, as well as more advanced levels of knowledge across the whole label spectrum.

Currently the Label Academy consists of a website (www.label-academy.com) where anybody can register free of charge. There are already several hundred registrations on the site database. The website provides background information about how the global training resource is being developed, a resource in which it is planned to initially have up to 20 training modules. At present, three modules are completed, with a further five anticipated to be completed by the early months of 2015.

An education and training syllabus for each module will be placed on the Label Academy website for perusal. Titles required for test preparation can be ordered on-line in either paperback or Kindle versions for home, work or training center study. Supporting each module syllabus online is an increasing number of links to additional training resource materials, including magazine articles, videos, reports, technical publications – all free to access and study.

It should be stated that the Label Academy is not looking to replace any existing colleges, training centers or consultants. Rather it is aiming to provide up-to-date resource material that they be used to work towards a common global syllabus. Indeed, if such existing bodies wish, they can register to become accredited training organizations and obtain training materials at a reduced cost, as well as have their own training activities promoted on the Label Academy website.

What's more, the Label Academy has already been endorsed by leading label industry associations: FINAT, Tlmi and LMAI.

Those studying and successfully completing each training module – currently Conventional Printing Processes, Digital Label and Package Printing and Environmental Performance and Sustainable



Labeling, can register online to take a module examination: a series of questions they will follow through on their computer, laptop or tablet. If the required pass mark is attained, a temporary e-certificate is available to download immediately. A permanent certificate is delivered by post.

How can the label industry best make use of this new resource? Ideally, label companies – whether converters or industry suppliers – would acquire all relevant handbook modules as they become available so to gradually build-up their in-house library of titles that any new or existing employees can study. Modules are available in physical paperback titles or in electronic format.

Label industry stakeholders might also look to build the module learning program into their recruitment and induction process and create personalized new or updated training schedules for each employee. Employers should perhaps also budget to pay the examination fee for any employee wishing to take each module examination. If desired, examinations passed can then be incorporated into company annual appraisal schemes.

Knowledge training of this kind is not just relevant to production employees. Some companies have already indicated that they would like their sales and other public-facing personnel to go through selected modules to better understand the technologies and materials used.

At the end of the day, it should be in the employer company and employee interests for everyone to be more knowledgeable and better informed about the technology, processes and products that are used and created. Employees have a greater self-worth if they are encouraged to develop their knowledge and skills; employers have more able and satisfied personnel.

Some label converters may even find it of value to encourage some of their customers to better understand the industry and what it can offer by going through a specific module or modules.

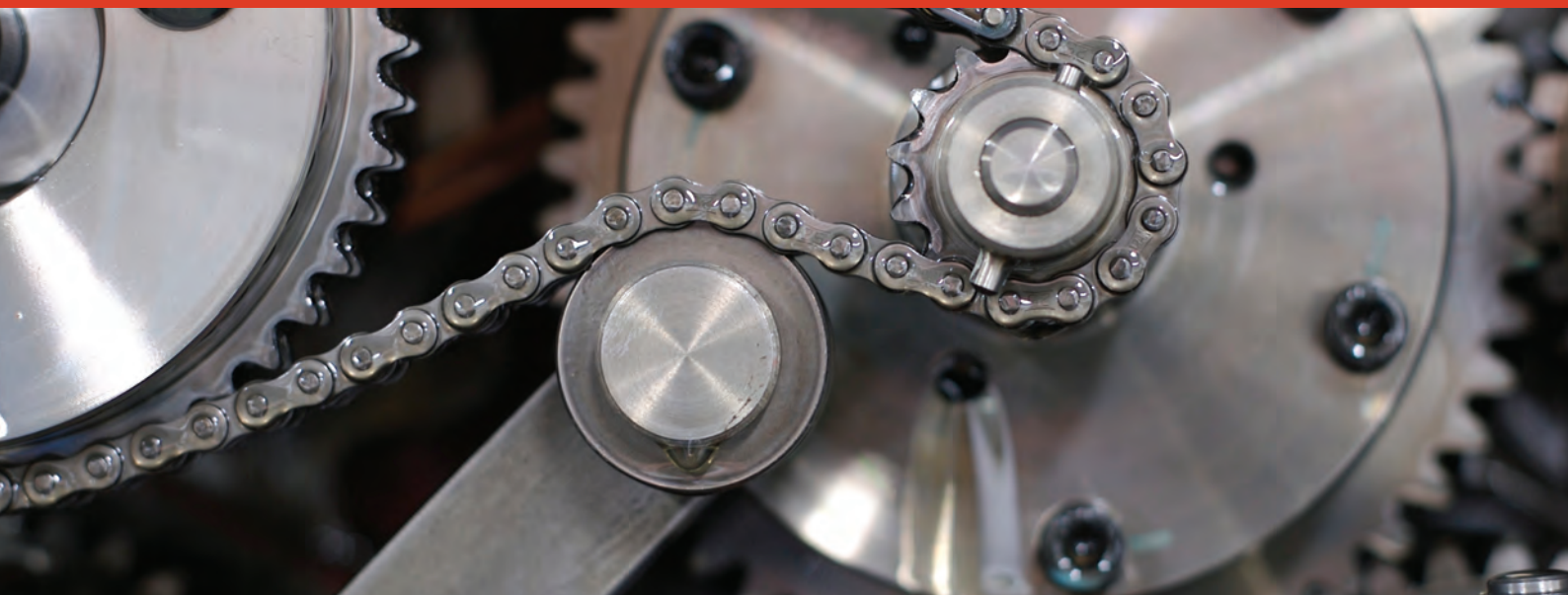
The Label Academy should be seen as the beginning of a new and exciting, better educated and forward looking industry that will hopefully raise the status of label printing to a new industrial level that is globally admired, and that young people want to come into and create their own future – as well as contribute to the industry's future and ongoing success.



For more information

The Label Academy, a global training and certification program for the label and package printing industry:
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Managing color in complex supply chains

Jay Sperry of Havi Global Solutions discusses the importance of incorporating advanced packaging technology into integrated systems

Packaging makes a critical first impression. It engages the target customer with printed graphics that inform and activate key product messaging. When executed correctly, packaging also establishes the product's quality position and reinforces the brand and product experience.

Given how important the role of packaging is, optimizing packaging and artwork development processes is critical to ensuring accuracy and consistency in printed graphics, from production through the point of purchase. And while this may sound relatively easy, it is not.

Many factors complicate the delivery of consistent, quality packaging. From a global supply chain perspective, the complexities that stem from scaling to serve many diverse countries with graphics tailored to meet individual market needs must be juxtaposed against feasibility and technical constraints, corporate social responsibility goals, and cost reduction initiatives. Opportunities to add value by reducing time-to-market for new packaging graphics, simplifying the print approval process, and increasing the efficiency and productivity of graphics management resources can be realized, but can backfire if managed as separate entities.

On the brand side of the equation, it is equally important to anticipate and integrate brand and design expectations for color standards within the execution platform, while facilitating real-time communication and data exchange throughout the process and

“Delivering on-target color in a complex operating environment requires special attention by dedicated experts, managed through an established process workflow”

across geographic regions and supply stakeholders. Significant advancements in the printing industry over the last decade have brought to market enterprise solutions for syncing production color measurement systems with cloud-based databases for brand standards and design expectations; still, delivering on-target color in a complex operating environment requires special attention by dedicated experts, managed through an established process workflow.

Furthermore, a comprehensive and holistic approach is required to improve the quality and consistency of packaging and artwork outcomes in complex supply chains. The approach must consider and integrate governance, the supply chain process, partnerships, and emerging technologies.

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“It is challenging to integrate multiple suppliers into a single system that delivers packaging holistically and consistently”

The case for color management

The challenge of managing color across a supply chain directly correlates to the size and complexity of a business. In other words, the more packaging helps drive a business, the more headaches it can create. The complexity of producing a single product grows exponentially in today's global environment, driven by the hundreds of print suppliers, thousands of pieces of artwork, and varying customers' needs that a company must serve.

Though there are many high-quality print suppliers available who are fantastic at managing color and delivering quality printing to their clients, it is challenging to integrate multiple suppliers into a single system that delivers packaging holistically and consistently. Each stakeholder within a packaging development process – from various print locations around the world, to the team that owns the marketing strategy

– has their own unique, and sometimes competing, set of requirements to be addressed.

In a variety of industries, well-managed color in packaging drives business growth by addressing common challenges found by both marketing and supply chain leaders.

Marketing

- **Execution of creative intent:** Color management can be leveraged to guarantee that the creative intent behind a brand's messaging and promotions is accurately delivered and represented to the customer on shelf. Securing input and alignment from both the creative and supply chain functions early in the color management process helps meet stakeholder expectations of quality, consistency and technical feasibility when graphics are finalized.
- **Maximized value of packaging graphics:** The use of packaging graphics as a complementary media vehicle for brands is increasing. An effective color management process brings maximum value to the brand by exploiting real estate on the package structure. It helps reduce or eliminate common barriers to introducing new artwork (the approval cycles required to implement new graphics, the costs associated with pre-press and tooling, onsite press approval, etc).

Supply chain

- **Efficient print production:** A comprehensive color management system enables quality and makes it possible for print suppliers to deliver within brand category specifications on a highly consistent basis. This allows them to run their presses more effectively, reducing wasted materials, optimizing resource utilization, and improving the printers' bottom line.
- **Reduced cycle times:** The onset of digital workflows and technologies has changed the paradigms of how brands can connect with customers. Color management reduces cycle times and enables the rapid deployment of new designs in market, allowing brands to leverage their graphics to communicate relevant messaging on a more frequent basis.
- **Merge of materials:** Product packaging rarely exists in isolation. It is often accompanied by additional printed inserts and product pieces that all come together to present the brand as a whole. With a holistic color management process the various elements are managed to a consistent color and quality standard with speed and effectiveness.

Taking a broader view

In theory, color management should provide a seamless workflow, but any number of factors can quickly throw the system out of balance: To mitigate the effect of these

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variables, print buyers must drive visibility and collaboration across key stakeholders – in real-time and throughout the packaging development cycle. This is what delivers consistent, reproducible color across a complex supply chain.

Comprehensive color management platforms move beyond a functional perspective to integrate a broader view of the overall workflow, providing a cohesive view. Integrating functional workflows moves projects more efficiently through each discrete component of the process, enabling better communication and faster decision-making, while increasing efficiencies across diverse supply chains.

A fully integrated, cohesive platform allows for the inclusion of proofing, prototyping and color certification work streams to ensure that the color being produced meets brand expectations and can consistently be reproduced downstream, in support of upstream marketing efforts. Solutions that leverage technologies like web connectivity and the digitization of assets help connect multiple stakeholders around the world to facilitate real-time review, course-correction, and approvals.

The colors of success

Color management in complex supply chains can and does significantly impact an organization's bottom line. When executed poorly, variability and inconsistency not

only generate internal costs in materials and resources, but also impact a customer's experience if the package makes it to the shelf. However, when executed well, the benefits realize valuable competitive advantages:

- **Cost effectiveness:** A well-integrated solution provides assurance that global creative decisions and guidelines are commercialized as intended. Gains in effectiveness derive from the optimization of color tolerances to suit individual package and market requirements, the automation of low value-added tasks (project management, repeated approval cycles, etc.), and printer efficiencies generated by synced expectations, faster turnaround times for new graphics, and reduced waste.
- **Increased speed to market:** By establishing expectations and creative intent in the earliest stage of the workflow, the 'cushion' for late stage iterations and revisions can be reduced. Speed to market is also enabled by the real-time capabilities of using an aligned technology platform.
- **Brand guardianship:** An integrated, technology-enabled color management platform allows brands to preserve core assets in a cloud-based infrastructure; ensuring approved color specifications can be securely and consistently reproduced over time and across geographies.

- **Graphic quality:** Complete color management solutions offer reporting tools that help brands identify and close global and/or market-based supplier quality and capability gaps against category standards and specifications; allowing brands to raise quality and consistency over time, instead of designing to the lowest common denominator.

The keys to managing color in complex supply chains are collaboration, communication, and transparency across the entire workflow. By allowing brands to communicate their standards directly with their network of print suppliers early and throughout the creative process, and enabling printers to secure approvals in real time and leverage Big Data reporting, efficiencies are improved and expectations align along the print supply chain. Over time, these efficiencies can add value by delivering a competitive advantage for the brand through packaging, while generating savings due to resource and waste reductions.



About the author

Jay Sperry is the graphics commercialization director for Packaging Technology Integrated Solutions (PTIS), a division of HAVI Global Solutions. He is a graduate of Clemson University.

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Guesswork-free flexo growth

Flexography is a modern science rooted in process control, and the process will continue in adoption, explains Robert Moran of FLEXO magazine

With some forecasts indicating that the value of printed packaging output will approximate one trillion USD by the start of the next decade, Flexographic Technical Association (FTA) members stand intent on expanding their base. The membership mission to 'capture a continually growing share of the hundreds and hundreds of billions of dollars that constitute the flexo print market' requires a steadfast commitment to reduce and control variables in the process.

Flexo orders span all business segments with estimated sales:

- Flexible packaging 231 billion USD
- Folding carton 184 billion USD
- Corrugated 176 billion USD
- Labels 114 billion USD
- Additional sales in envelope, tissue, napkin and newspaper markets

Multiple analysts view average annual growth at four to five percent, with stand-up

pouches and sleeve labels leading the way. Additionally, the October 2014 FTA Brand Perception and Evaluation Survey

“Multiple analysts view average annual growth at four to five percent, with stand-up pouches and sleeve labels leading the way”

(conducted by Avenue M Group) found that 82 percent of FTA members remain positive about the industry and its future.

FTA attributes the positive outlook to a combination of innovation and performance. One year ago, its Printer/Converter Process and Technology Survey revealed that 72 percent of respondents indicated that business was on the upswing, with 42

percent reporting significant growth of better than 10 percent.

Nearly 75 percent of those print operations posted sales of at least \$10 million USD annually, with 50 percent achieving yearly sales volume of more than \$20 million USD. Almost 45 percent stated that the 10 percent growth patterns had held for five years running, with some saying it extended even farther back.

Top priorities

Tackling challenges of improving turnaround time, reducing waste, speeding make ready and hastening setup times remain priorities. Of those surveyed 65 percent said press changeover offers the greatest opportunity to improve productivity, with 63 percent ranking it as having the greatest potential to boost profitability. Make ready time was acknowledged as the next best way to improve productivity and profitability, with color matching following closely behind.

Shorter runs and lower prices remain the clarion call to action. Reliance on process



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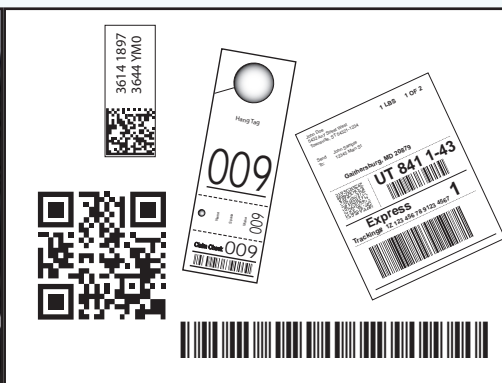
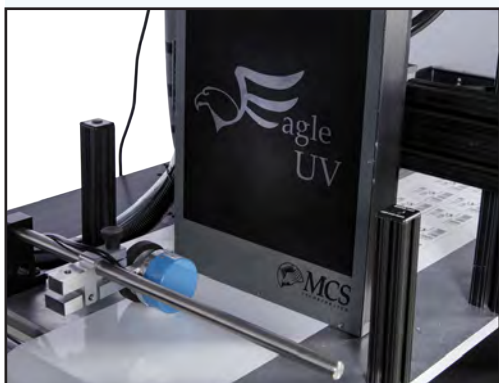
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controls, improved proofing methods and equipment and greater automation of file processing are credited with driving positive momentum. Investment in newer press technology, designed to facilitate efficient job changeovers, is paying prime dividends.

Materials cost as always is a concern, with substrates credited with experiencing the largest increase in prices, followed by inks, plates and labor.

“Modern day narrow-web flexographic presses are highly automated pieces of equipment. They are redefining traditional workflows”

FTA surveys have determined that customers – consumer product companies – are recognizing the importance of printing to the numbers and are requiring it of their suppliers.

Hand in hand with that demand, CPCs are insisting on added value features with decorative processes most in demand, followed by expanded gamut printing, tactile touches, variable data graphics, printed electronics and augmented reality. Furthermore, customers are requesting higher plate resolutions, unique screening patterns and improved ink coverage.

Printers/converters have responded. Individually and collectively, they are confident in their decision to ‘print to the numbers’, as recommended by FTA, and embrace Flexographic Image Reproduction Specification and Tolerances (FIRST) as their platform. Day-in and day-out they succeed in producing the exact same result from the initial pressrun, straight through all succeeding runs, thereby positioning flexography as packaging’s print process of choice.

Standards & controls

In the standards world, packaging seems to be growing in significance and stature. The present challenge is to bring the flexo printing standard to something that all printers can master and be able to use. A number of international standards bodies are currently addressing packaging graphic standards: International Color Consortium (ICC), Ghent PDF Work Group, Committee for Graphic Arts Technical Standards (CGATS) & International Standards Organization (ISO).

FIRST utilization and acceptance has grown substantially. Elements of process control are

the bedrock on which FIRST principles rest:

- **Optimization:** Analyze the process to determine preferred operating parameters
- **Fingerprinting:** Establish standard procedures for a set of materials/conditions
- **Characterization:** Use IT8.7/4 test target to quantify the color profile
- **Process Improvement:** Perform statistical analysis of ongoing production data to improve quality, efficiency, and productivity. Measure various test elements and quantify results to establish aim points and tolerances

Evolutionary environment

Job counts are up. Pressruns continue to grow shorter. Demands are becoming more complex. Competitive positioning is essential. On-press efficiencies contribute to process control. Engineered solutions, necessitated by today’s higher and higher press speeds, capitalize on process integration. Modular ergonomic designs facilitate consistency. Integrated features result in enhanced ability to manage color while on press.

As flexo pre-press continues to evolve, plate makers are starting to see a convergence of technologies that will change production workflows for the better. Among them: flat top dot solutions, new plate surface technologies, LED light source exposure, accelerated imaging and finer detail reproduction. Newly developed equipment is capable of increasing productivity by reducing processing times by as much as 25 percent. High efficiency dryers with separate drying chambers reduce drying times by about 50 percent.

The last 15 years have introduced hybrid screening, differentially modulated screening, solid screening and a host of specialty screens just for flexography. These screening technologies become even more relevant when you consider gradations, shadows and transparency effects available in modern design software.

From fingerprinting and proofing curve development, to dot shapes and photopolymer characteristics and properties, to thin-walled sleeves and the continuing evolution of in-the-round technologies, modern day practices are proving versatile and valuable. Consistency is improving. Repeatability is being bolstered. Efficiencies are on the rise.

Modern day narrow-web flexographic presses are highly automated pieces of equipment. They are redefining traditional workflows, optimizing process controls, taking the guesswork out of package print production, and making pressrooms more profitable; all because they are designed to ‘eliminate the possibility of error.’ A leading manufacturer bills current machinery as, ‘the

perfect marriage of steel and automation.’

Every new model is flexible, ergonomic, application specific and far more efficient, reliable, consistent and predictable than earlier generations. Quicker makereadies, faster changeovers, reduced waste, higher speeds, shorter runs and compressed time to market are being touted as benefits of their use. Intuitive, interactive man/machine interfaces are simplifying procedures.

Combination printing and expanded gamut are becoming increasingly important. Foils, screens, laminations, color quality – all impact appeal. The press must be flexible enough to integrate these processes and technologies in a single pass, precisely and consistently. Everything boils down to productivity.

“The last 15 years have introduced hybrid screening, differentially modulated screening, solid screening and a host of specialty screens just for flexography”

With lean inking systems, plate sleeve technology, short web paths and a list of added value offerings, today’s versatile press platforms enable the converter to take advantage of emerging markets, for example, many label presses can switch to flexible packaging printing, having all the pressure and tension controls suitable for both applications. Similarly, the same machine can sometimes effectively manage folding carton and flexible films.

By actively integrating new technologies, improving quality, efficiency and cost effectiveness flexographic printing stands well-positioned for healthy growth and is adapting to the changing face, format and function of every printed package.

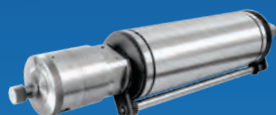


About the author

Robert Moran is publisher of FLEXO Magazine, the official voice of record for FTA. FTA is dedicated to bringing all members of the flexographic printing community together. It is a proponent of maintaining and advancing quality standards and includes some 1,400 member sites that employ more than 60,000 individuals.

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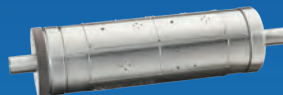
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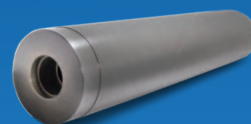
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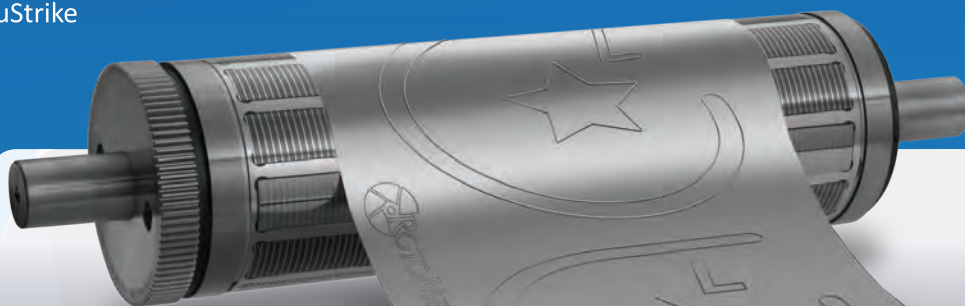
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Research and development of functional printing at Cal Poly

Printed Electronics for the label printer

Cal Poly's Dr Malcolm Keif shares updates on the added-value sector of functional printing for labels and packaging

The notion of functional printing – the printing of active inks – is novel. Does it have a place in the business model of the label printer? Is it realistic to think that converters can print active inks that do more than faithfully reproduce the artwork?

Let's begin by defining functional printing. Functional printing is the additive deposition of conductive, dielectric, reactive, sensing, barrier, microbial or other type of active ink using conventional printing processes. With that broad definition, some may already consider themselves a functional printer.

Many companies are using interesting ink formulations that do something. Barrier coatings, thermochromic or vapochromic inks, sensors and scavengers are all examples of functional materials.

If you are not currently printing anything besides graphic inks and protective coatings, this article is for you. How can you get started in functional printing, and specifically, how can you explore the future of printed electronics?

Printed electronics involves printing conductive and dielectric inks on flexible substrates to make an electrically active circuit or component. Rollable, foldable,

bendable and wearable electronics are the future. Even with rigid packaging, printed electronics may be an important component for future active and intelligent packaging. Printed electronics show promise with light-weighting, additive processing and the potential for faster, cheaper production.

“Even with rigid packaging, printed electronics may be an important component for future active and intelligent packaging systems”

Let's be honest, printed electronics is complicated. But then again, so was halftone color separation 75 years ago. So, while the language, the physics principles, the material development, and the mechanical transfer systems are challenging today, with study techniques can be learned for creating fully printed or hybrid flexible electronics.

What do I mean by hybrid flexible electronics? In the near term, hybrid systems will likely play a significant role in making flexible electronics. A hybrid system is printing what can be reliably printed on a flexible backplane and then surface mounting conventional electronics where needed. These flexible bundles get encapsulated by lamination, maintaining as much flexibility as possible.

What printed electronics can be realistically printed now?

Each printing process offers unique characteristics. Screen printing is particularly good for laying down relatively thick ink films, which usually equates to better conductivity. However, screen printing isn't great for fine features such as thin lines. Flexo and gravure do better at making small features, but have other challenges including relatively thin films and inconsistent surface smoothness. Inkjet printing is great for depositing fairly fine features and can make variable patterns, but it is quite slow compared to other processes.

Below is a list of printed electronics devices that can be reliably printed today. They require the right material, the



Reviewing
printing plates
at Cal Poly

right process and sometimes multiple processes, the right know-how and the right equipment:

- Conductive traces (think flexible wiring)
- Electrochromic displays
- Electroluminescent displays
- Batteries
- Organic solar cells (OPVs)
- Printed heating elements
- Antennas for RFID, NFC or any inductive coupling (such as charging a wireless toothbrush)
- Transparent conductive films
- Printed resistors, capacitors, mechanical switches, and other simple devices

Unfortunately, while some have demonstrated printed thin-film transistors (TFTs) in lab settings, we are not quite ready for production-level TFTs on typical label presses. When that does happen, we will see a whole host of new products integrated into active and intelligent packaging systems. Until then, hybrid solutions will be used. TFTs are needed for many

of the more sophisticated applications, including logic, memory, electrical switching and addressable displays. This will happen once several significant technical challenges are overcome to achieve meaningful switching speeds.

What type of equipment is needed for PE production?

In theory existing equipment can be used. In practice, a platform must be built that can repeatedly produce printed electronics.

First, the ink delivery to plate must be addressed. The inks we use are remarkably expensive. Big ink pans that take a few liters to fill before hitting the ink pan roller means trouble. The process doesn't matter as long as ink use is minimized and easily recoverable. A retrofit low-volume chamber with minimal hose lengths would be a logical solution, for example.

Second, ink drying is critical for success. To print with a metal-based conductive ink (like silver or copper), both the driving out of the solvent and the sintering of the metal particles requires attention.

Sintering is a heat-treating step that changes the microstructure of the metal and greatly improves conductivity. There are two common approaches being used today: conventional ovens and photonic curing.

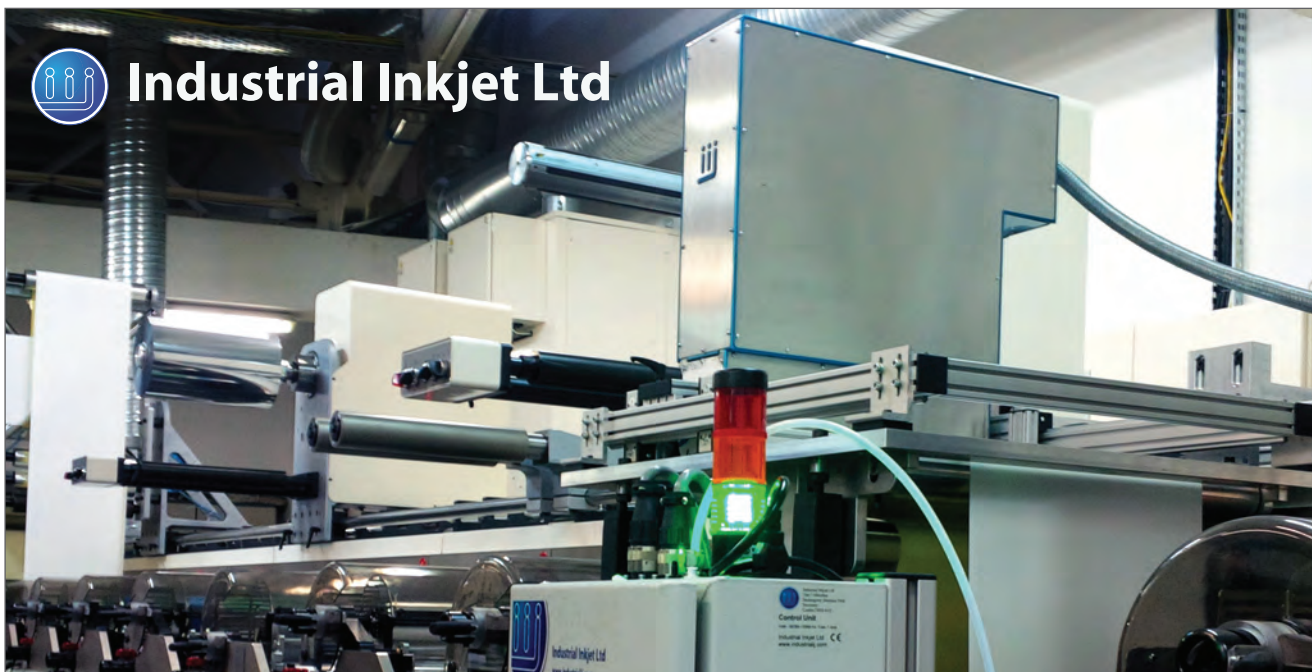
Typical flake silver ink will see a dramatic drop in resistance when sintered in an oven temperature of 130-150deg. C for 20-30 minutes. For a web-fed printing press this means a few minutes at a high temperature to improve electrical performance. On the flip side this commands use of a long oven running at a slow speed.

An alternative to sintering is photonic curing, which uses high intensity light flashing at very high frequencies (10K per second) to generate a lot of heat on the surface of the ink. When done properly, heat is generated in the ink without damaging the substrate.

I have seen few press-installed solutions for this technology, though they are pricey. It may be that a hybrid approach using conventional ovens between units with a single photonic unit after the conductives is the best approach, although this needs more research.

Organic materials do not demand as much heating capacity. There are a number of polymers that function as conductive inks (PEDOT:PSS for example). But truthfully, they are not great conductors.

Carbon-based inks are promising, especially carbon nanotubes (CNTs) and graphene. We still need a bit of time though before we know just how well



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these inks work and how much post treatment is needed to improve performance.

“Addressing ink consumption and drying of inks puts converters in a good position for testing functional printing”

What about ultra-violet (UV) inks? While UV curing would solve these challenges, I do not know of any UV curable conductive inks. Typical UV ink components, which do not evaporate and therefore remain in the dried ink film (photo-initiators, oligomers), undermine conductivity. Further, the goal is not merely to dry the ink, but to change the conductive properties by changing the form of the ink through heat. So UV may not be the best solution even if a formulation materializes.

A dream press for printed electronics

Addressing ink consumption and drying of inks puts converters in a good position for testing functional printing. Still, if I could build a dream press for printed electronics, it would likely have these features:

- Servo mechanical drive system
- Excellent tension control
- Runs at 50-400 fpm (slower may be better)
- Web cleaning and treatment (plasma)

- Advanced/high capacity dryer tunnels for driving out solvents of conductive inks
- Photonic curing system
- Layer-to-layer registration tolerance - $\leq 10\mu$ – camera-based automated registration
- Low-volume ink pans/chambers with capabilities to segment pans/chambers for reduced ‘minimum’ ink consumption
- Four to six print stations, ideally with interchangeable processes or a mix of processes, for example four flexo, two gravure, two screen
- Some open rails to add capabilities including slot-die, inkjet, aerosol jet, etcetera
- A system that offers visual and some form of electrical inspection.

After reading this list, a few things may stick out as unrealistic, notably the registration control. Most presses are doing well to register to 50μ (roughly 0.002”). So, this is an area the press manufacturers need to work on. If we could get down to below 5 microns, we may be able to produce useful TFTs—and that would truly be disruptive.

Are you ready?

Right now, I know several companies who are positioning themselves to be leaders in this space. Label printers will play a role in functional printing and printed electronics in particular in the years ahead. I have no doubt about this. It is already happening on a small scale. To learn more about what Cal Poly is doing in this space visit:

<http://PrintedElectronics.calpoly.edu>



Testing for printed electronics



About the author

Dr Malcolm G. Keif is professor and graduate coordinator of the Printed Electronics and Functional Imaging program located at Cal Poly State University in California. He has served as a judge for the Printed Electronics Awards (IDTechEx). In 2014, Cal Poly and University of Munich won the freestyle demonstrator for the LOPE-C conference in Munich.

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SPGPrints' modular DSI digital UV inkjet printer

What makes a smart digital UV-inkjet label workflow?

High press specification, ink technology, integrated software and long-term support are the criteria for sound investment, says Bas Hoijsink, commercial manager graphics at SPGPrints

With retail goods brand-owners insisting on both analogue and digital workflow solutions from their suppliers, the urgency for label converters to consider investing in high-performance digital technology is acute.

Thanks to productivity and resolution improvements, UV inkjet achieves identical quality results to analogue, economically, for runs beyond 4,000 web meters. The process is ideal for film substrates; the inks offer high-gloss needed for brand impact, durability and fade-resistance for external, industrial or harsh conditions, and the cost advantage of avoiding 'click charges'. Presses offer scalability –



extra width and extendibility are possible, for example, by adding print heads.

To offer brand owner customers the flexibility that lets you switch between digital and analogue workflows, and minimize ownership costs, you need a high-specification press, fine-tuned inks, automated software and long-term support.

Custom specification

A customized specification takes into consideration the end-user markets, applications, substrates to be printed on, and whether in-line or near-line converting is most viable. For high-end labels, a press must offer controlled quality on many substrates, a wide color gamut and tonal range, and include finishing and converting options.

Intermediate LED-pinning and chilling are prerequisite to control the ink laydown and temperature of heat-sensitive plastic substrates.

Beyond including the standard CMYK process colors, converters should consider adding orange and violet, to replicate over 90 percent of the visible color spectrum; opaque white – ideally with optical density values over 93 percent – protects the integrity of the visible colors of a no-label look; and spot colors, for unique brand colors.

The primer – optional on advanced presses – achieves excellent ink adhesion on a wide range of substrates, including machine-coated papers, economically. No need for expensive, specially treated facestocks: the primer is applied in a controlled way, to the desired image area. Ideal for wines and cosmetics, the localized primer application is brand-enhancing, sharpening the contrast between the UV inkjet color's natural vividness and the uncoated surroundings.

Through partnerships between the press supplier and end-of-line technology providers, a full range of finishing and converting equipment can be seamlessly integrated. Examples are a flexo station

for matte varnishes, semi-rotary die-cutting and laser die-cutting, reducing costs by ensuring the tooling is compatible with existing analogue workflows.

For the press to be adaptable as your business needs change, modularity of the press is crucial. Can the press be widened or extended with more colors or converting equipment?

Ink innovations

It is essential for the ink to work perfectly with the ink head. The ink flow characteristics must be fine-tuned to avoid jamming, which can result in print-head damage. A supplier that manufactures the ink and builds the press can bring chemists and engineers together, dedicated to optimizing compatibility and further performance enhancements of the ink.

Examples of innovation in ink performance include: BWS-7 standard light fastness, optimizing sunlight fade-resistance to sunlight; low migration and chemical resistance.

Print head performance indicators are a combination of resolution (dpi), greyscale levels, linear increments of drop-sizes for a wider tonal range, dot-placement accuracy and temperature control.

There is great demand from food manufacturers for digital printing, in order to benefit from shorter runs and variable data printing. In recent years, suppliers of food packaging have had to comply with strict safety regulations. Thanks to new low migration inks that meet the guidelines of the European Printing Ink Association (EuPIA) and are compliant with the Swiss Ordinance on Materials and Articles (SR 817.023.21), digital UV-inkjet label printers can meet this market's demand safely.

Integrated workflow

With an automated software also compatible with analogue workflows and the company MIS, digital printing can reduce pre-press times to fifteen minutes and allow dozens of jobs to be programmed consecutively. Easy XML file extraction, automatic generation of job specifications, step-repeat information, and PDF files are prerequisite qualities. Repeat orders only require retrieving from the system, with a click of the mouse.

Technical support maximizes uptime

High productivity depends on the quality of supplier support. Expect to receive practical training, workshops on how to print difficult substrates, preventative maintenance courses and fast-response advice on matters like filter exchanges or press settings.

A responsible press supplier will also inspire the customer with vision and expertise to offer – and create – new high-end services. Digital printing does more than allow the converter to deliver short runs economically. It is a business-transformer, because of the multitude of new added-value services that converters can offer as a result of adopting a digital workflow. Consider the advantage of an on-demand, digitally-printed sample service, for instance. Instead of Photoshop and mock-ups, a converter can offer an actual run of the tangible product on the press, in minutes, using the exact substrate components, inks and graphics. And if any further changes are needed, one simply adjusts the file and goes back to press. At a stroke, perhaps weeks have been shaved off marketing department's lead times!

Continuous innovation in digital inkjet and rotary screen printing technology

As a manufacturer of digital UV inkjet, rotary screen printing and computer-to-plate laser engraving technology, SPGPrints offers high-performance digital and analogue workflows that meet the demand for shorter lead times, low ownership cost, consistent premium quality and sustainability.

SPGPrints' modular DSI digital UV inkjet printer offers a productive solution for short-run, variable data and personalized labels thanks to its high specification, low ownership cost and high-definition reproduction. Offering production speeds of up to 700sqm/hour and available in widths from 135mm to 530mm, the system is a competitive alternative to flexo for production runs of up to 5,000 linear meters and, sometimes, beyond.

The printing platform, with CMYK as standard, can be built or latterly extended with up to six more print heads. Options are orange and violet to make 90 percent of the Pantone color gamut achievable, digital white with 'screen-look' opacity and digital primer to maximize substrate compatibility, while minimizing waste. Intermediate in-line LED pinning stations ensure crisp text, fine lines and maximize color definition. A water-cooled chill drum enables processing of heat-sensitive substrates.

Photo-quality is a given thanks to proprietary scratch / chemical-resistant UV inks, optimized for the DSI press. They offer BWS-7 light fastness, high gloss and 1 percent tonal values. SPGPrints offers a full range of low-migration inks for food packaging applications also. The system can be specified as a stand-alone printer or a custom-built single-pass printing, finishing and converting line.

SPG Prints' retrofittable RSI (Rotary Screen Integration) units give a productive, economical means for creating a host of visually striking, tactile and functional effects, of up to 300 micron thickness, in a single printing pass. Printing effects include the 'no-label look', metallic and opaque colors, glitters, tactile warning symbols, texture varnishes, scratch-off inks, holograms, conductive inks and Braille.

SPGPrints' re-imageable RotaMesh screens for RSI systems and the re-usable RotaPlate screens for non-SPGPrints systems feature the ultra-stable electroformed pure-nickel construction, offering easy handling, high stability and longevity. Life-spans can be up to 500,000 web meters.



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Nuova Gidue on display at Labelexpo Americas 2014

Nuova Gidue and the full digitization of the flexo process

The company

Nuova Gidue is an Italian company that manufactures printing and converting machines for the labels and packaging industry. With more than 15 service points spread all over the world and over 600 installations of presses worldwide, Nuova Gidue has built a global sales and service organization that efficiently supports all its customers globally.

Over the past 10 years Nuova Gidue has been developing exclusive technologies for many different related markets, always with great attention to the customer's need during all operational processes, and to ensure customer satisfaction in post sale operations. The constant research of new advanced technologies developed in order to simplify the work of the operators and in order to provide the best printing results in terms of quality, costs and waste, has always been the core point of Nuova Gidue's mission, since its birth. These aspects have let Nuova Gidue excel as one of the best companies in both the national

and international scene of the labels and packaging industry.

"Flexography has gone through a deep technical revolution"

Products and innovations:

Federico d'Annunzio, president of Nuova Gidue, says: 'Flexography has gone through a deep technical revolution: new "digital" flexo plates and pre-press workflow deliver consistent quality, wider graphic range, higher line count, and introduce reliable standardization in the flexographic process. Anilox rollers are available with higher line

counts, better ink release, wider ink release gamut, and digital consistency. Ink suppliers have supported the trend by introducing higher pigmented inks with consistent ink performances and easier to use formulations. As a natural consequence of a clear request of the labels and packaging industry to put as many variables as possible under "digital" control, in 2013 Nuova Gidue introduced the "full" digitization of the flexographic process inside the printing presses by launching the new "Digital Flexo Excellence" line.'

Nuova Gidue Digital Automation program: new concepts for the labels and packaging industry

The Nuova Gidue Digital Automation project is a revolution in 'thinking' and operating a labels and packaging press. It considers all the possible operations, makes them fully digitally checked, adjusted and controlled:

- The minimum possible waste (10m) in the production of labels and packaging



Nuova Gidue won the 2014 Global Award for Innovation

- The most consistent printing and converting quality (digitally controlled and adjusted, at any speed)
- The lowest cost per job using analog plates (half of the print and flexible die plates costs on most jobs)
- The easiest press to run for any operator
- Less skilled operators (Digital Automation performs most set-up and running operations)
- Consistency in quality and performances between operators (all operations are 'digital' and repeatable)
- Comparable costs with digital printing over 300/400m of printing and die-cutting
- Comparable flexibility with digital printing (1 min = 1 full job change, printing and die-cutting)

Excellence: a revolution in the labels and packaging industry

The Excellence project takes the flexographic process to its ultimate efficiency and productivity. It delivers the fastest changeover times and minimum waste ever produced in the labels and packaging industry.

- Prepare the 'new' job (printing and die-cutting) on the press while the press is printing the 'old' job
- Exchange 'automatically' all printing tools (cylinders, dies) without operator
- Exchange 'on-the-fly' without stopping the press to avoid start and stop waste
- The lowest waste: less than 1 machine length (10m or less)
- The lowest press downtime: the press is in full production, set up time is minimum (1min)

"The Excellence project takes the flexographic process to its ultimate efficiency and productivity"

Nuova Gidue won the global awards for innovation 2014

The Nuova Gidue 'Digital Flexo Excellence' project has been recognized as one of the most future oriented technologies presented at the 2014 Label Industry Global Awards and was therefore awarded with the first prize for innovation.

- **Combat MX:** The flexographic printing machine for the production of self-adhesive labels. Thanks to its top printing and register quality, it is the perfect press for all the companies that just entered the label industry.
- **Combat M1:** The ultimate press for label converters. New AccuDrive allows for 360° pre-register, automatic register for short set-up time and waste to produce the best printing quality in the label industry.
- **Combat M3:** 'Full servo' press for the production of self-adhesive labels and packaging. Thanks to its fully automated asset and its wide range of substrates and applications, it is the perfect press for packaging printers who need to produce short or long runs, or for label printers who produce PS labels, shrinkable sleeves and wrap-around labels. Fast set-up times and reduced waste make it a reliable, super-productive and generous press for many years.
- **Master M5 Excellence:** The new 'digital' revolution, for unlimited substrates in the labels and packaging industry. 'Digital' micro-runs, long runs, profit, quality, all-in-one press.
- **Xpannd M7:** Top quality press of Nuova Gidue product range. Many printing and converting processes (offset, flexography, digital, hot stamping, silk screen) are available on the platform. Every process is interchangeable in minutes. It produces the highest value products in the labels and packaging industry.
- **Xpannd M9:** Multiprocess press for carton printing and for the production of self-adhesive labels. Every process is easily interchangeable. This machine can adapt to include many different converting processes like offset, flexography, gravure, hot stamping and silk screen.



Nuova GIDUE S.r.l.

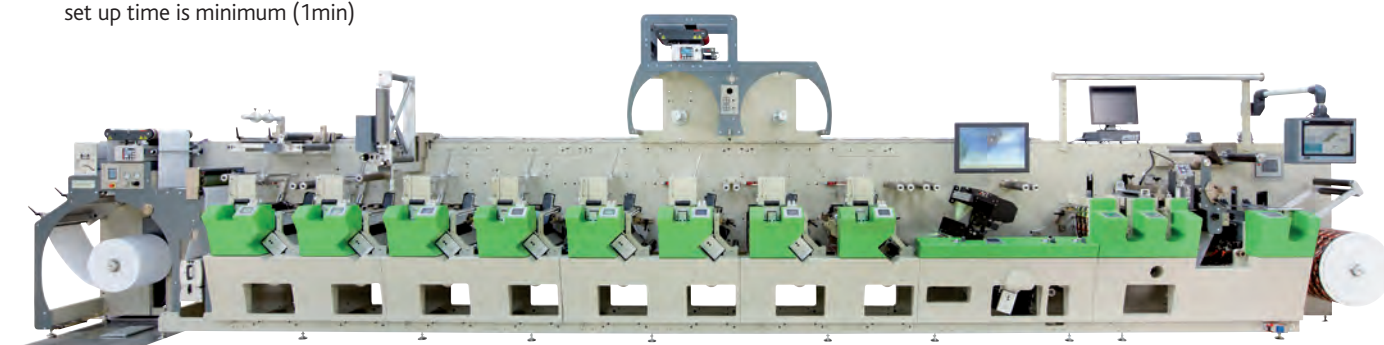
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M5 Excellence press

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Omet JetPlus press in action

Can hybrid make another comeback?

The appearance of some new hybrid presses prompts Barry Hunt to reappraise the technology

Three 'new generation' hybrid UV flexo/inkjet label presses arrived on the scene late last year. The past couple of decades have seen several attempts to establish this technology with decidedly mixed results. Perhaps this time it will be different? After all, each manufacturer claims to have identified a growing demand for workflows that can handle higher volumes of short-to-medium label runs, perhaps with digitally-generated versioning.

Roll-to-roll hybrid presses operate like conventional narrow-web presses, except for the digital element, which means operator training and assimilation into the plant should be relatively easy. They comprise three parts: digital printing (CMYK inkjet); an analog process (UV flexo); and several configurable converting and finishing processes. The result is a single-pass operation capable of efficiently increasing productivity while delivering shorter lead times. The UV flexo units usually print the solids, metallic inks and spot colors (with optional process color), plus varnish coating. Semi-rotary die cutting, hot/cold foiling, embossing, screen printing, laminating and rewinding complete the line-up.

Like other digital printing methods, drop-on-demand inkjet printing is a plateless system. This makes it easy to obtain fast start-ups for short-run work while incurring minimal waste. Inkjet's increased maturity has resulted in a steady progression from wide-format printing, encoding and marking into the high-quality production of labels, decals and some package printing. With increased reliability, many converters now see it as a relatively cost effective technology. As a non-contact process, it can print on a range of paper and filmic

substrates of differing textures with little on-surface treatments, although corona treatment is desirable for films.

Similar progress applies to the ink sets, which commonly include high-opacity white for printing backgrounds on filmic labels. Some models offer orange and violet to expand the color gamut. (They allow color matches for over 90 percent of Pantone spot colors, however the presence of two extra electronically-controlled printheads can compare unfavorably with UV flexo.)

'Inkjet has caught up as a digital process,' agrees Andy Cook, managing director of FFEI, developers of the Graphium system. 'It's like an alignment of the planets. The formulations of the latest UV-curable inks are compatible with the latest high-resolution printheads to improve all-round quality. Workflow management has also overcome many productivity issues. When the traditional press manufacturers first moved into the digital world they invariably found it a very challenging experience. Not least because they lacked an understanding of digital workflows. Furthermore, they had little experience of developing the type of service contracts required in the digital press world. They just had to learn the hard way.'

According to Philip Easton, Domino's commercial printing director, faster inkjet speeds have made a big impact on influencing the finishing process: 'It has been fairly usual to have a single off-line finishing line serving two stand-alone presses. As speeds have become faster, a single finishing line will often struggle to keep up with a single press, so favoring in-line production. Nevertheless, in many circumstances the in-line versus off-line debate remains unresolved.'

The road to growth



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HP Indigo WS6800 Digital Press



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HP Indigo 20000 Digital Press



Hybrid newbies

A fast integrated approach to inkjet printing is a major aspect of Mark Andy's Digital Series of hybrid production. It sees a growing demand for the volume production of short-run jobs, where off-line finishing would prove too slow and inflexible. Obtaining fast turnarounds is therefore a question of integrating high performing inkjet and UV flexo units with fully configurable finishing units.

The new hybrid press is based on the P7 version of the company's Performance Series platform. It has a 13 inch (330mm) wide web, with a 12.5 inch (318mm) digital print width. The maximum speed is 75 m/min (246 ft/min). The inkjet module is configurable with CMYK or CMYKOV, with optional high opacity White. An upgradable open digital architecture permits future proofing since it permits changes in printheads and inks as the technology changes. An un-named supplier delivers the inks through the company's existing consumables distribution network.

The press incorporates Quick Change Die-cut (QCDC) technology for on-the-fly job changes, plus cold foil, flexo spot color and varnish as decorative options. Esko's ProWORX digital front-end transfers customers' files from an existing pre-press workflow. Mark Andy plans to fit its ProLED LED-UV system once the inks are available. LED-UV is already available for inter-station reduced cure pinning.

Heidelberg's digital printing strategy includes the Gallus DCS 340 (Digital Converting System) hybrid label press derived from the granite-based ECS 340 UV flexo press. It runs with an in-line ECS C unit with direct matrix stripper, semi-rotary die-cutter, optional offset and screen printing units. The inkjet module uses Fujifilm's Samba printheads, stitchable to a maximum web width of 340mm (13 in), and the UV-curable inks. The top speed is 50 m/min (150 ft/min). Heidelberg's Prinect Digital Front End automates the prepress workflow with color management, spot color matching, a PDF Toolbox and Prepress Manager.

At the open day launch in St Gallen, Stefan Heiniger, chief operating officer of label business at Gallus, said: 'Due to continuing growth in short-run label production and personalized, versioned labels, we are seeing investment on the market steadily shift towards printing presses that utilise digital printing. The growth potential for this printing method is considerable and we expect to see high growth rates over the next 10 years.'

Following beta testing, the JetPlus module is offered for integration in Omet's X series of UV flexo presses. The Domino-built inkjet system uses KJ4 series Kyocera printheads with a native 600 x 600 dpi resolution that print up to 75 m/min (246 ft/min). Like its N610i press mentioned later, it includes Domino's i-Tech CleanCap automated printhead cleaning and capping station, and the ActiFlow ink circulating system. The hybrid presses incorporate Omet's Twin Cut patented die-cutters, which avoid the need to either replace the magnetic cylinder or adjust the die-cutter when handling variations in shapes. Automatic pre-register settings cover either digital or flexo operations.

FFEI is known as the developer of the Caslon inkjet print engine, which Nilpeter integrated into its own UV flexo-based hybrid press. It now focuses on the Graphium introduced in 2013 as a stand-alone press, but more usually sold with an Edale web platform. Inline configurations can support up to five inkjet modules and six flexo units. The CMYK+W module uses Xaar's new Series 1002 printheads



and Fujifilm's Uvjet inks. Its latest development is an over-white ink. Users can lay down a high-opacity white background and print CMYK in the normal manner, but printing a second, differently-formulated white on top achieves ultra sharp reversals for even the smallest text sizes. LED UV curing gives inter-color pinning augmented by a final UV cure.

The critical relationship between faster inkjet speeds and finishing is evident on the latest high-end UV inkjet presses. Like hybrid presses the accent is on single-pass production to achieve higher performance levels. It was first seen on SPG Prints' modular DSI digital press, now offered with CMYKOV+W supported by fully-configurable semi-rotary converting, die-cutting and flexo units from AB Graphic. EFI Jettrion's 4900 series includes the 4950LX LED. Its web platform supports chill rolls, flexo varnishing, lamination, laser cutting and turret rewinding. Colordyne Technologies' new 3600 series runs with an upgradable web platform from PCMC offering several finishing options.

Domino's new 340-mm wide Kyocera-driven N610i press offers up to seven colors. It has a standard interface for A B Graphic and GM finishing lines, or open interfaces for third-party finishing solutions. These can include semi-rotary die-cutting and chill rolls when printing films. In recent years software-driven laser cutting has slowly made progress in gaining acceptance. It is now available as an in-line tool on several presses, including Durst's Tau LFS (Laser Finishing System), and INX International's NW120-E press.

As a form of hybrid-lite, such developments go some way to endorsing the technology, while versioning and personalization for niche market applications add an extra dimension. A few users have even configured their a hybrid press to operate as two separate presses: one analog and the other digital. The actual job specifications and length of print run determines which half is used. All this suggests that hybrid presses may yet carve out a sustainable niche market among the different production technologies. Changing market conditions and improved production technology will certainly help.

Top left:
Gary Falconbridge
with new Colordyne
CDT 3600

Top Right:
Mark Andy
President and CEO
Kevin Wilken with
Digital Series press

Above:
Helmuth Munter
with Durst Tau LFS
330

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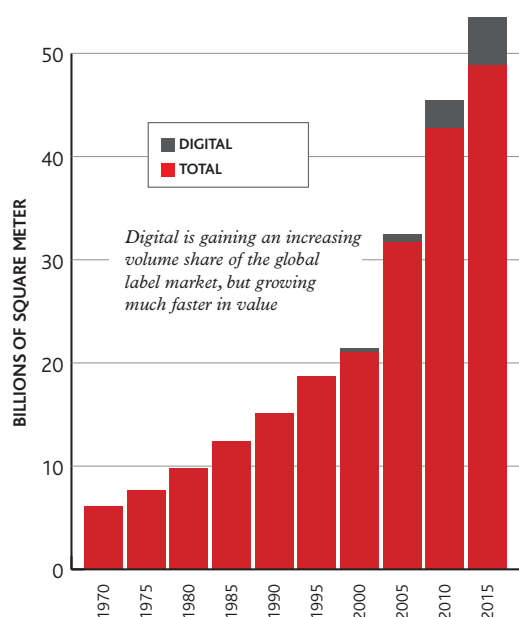
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Label trends: how digital printing is impacting the label industry

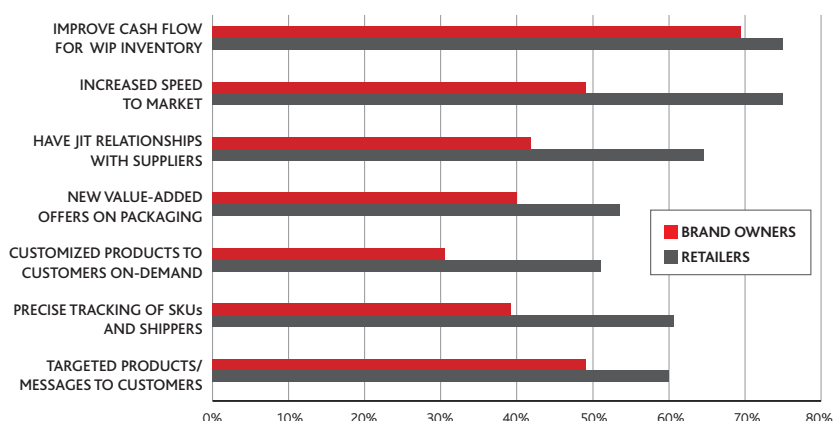
Digital printing in the label and package printing sector is on the rise. More products around the world are adopting the technology to change the way brands engage with consumers. Information below is sourced from the new Karstedt Partners Digital Print for Brand Owners Report and a handful of leading press suppliers.

Global label growth 1970 - 2015
(Billions of square meters)



Source: Karstedt Partners

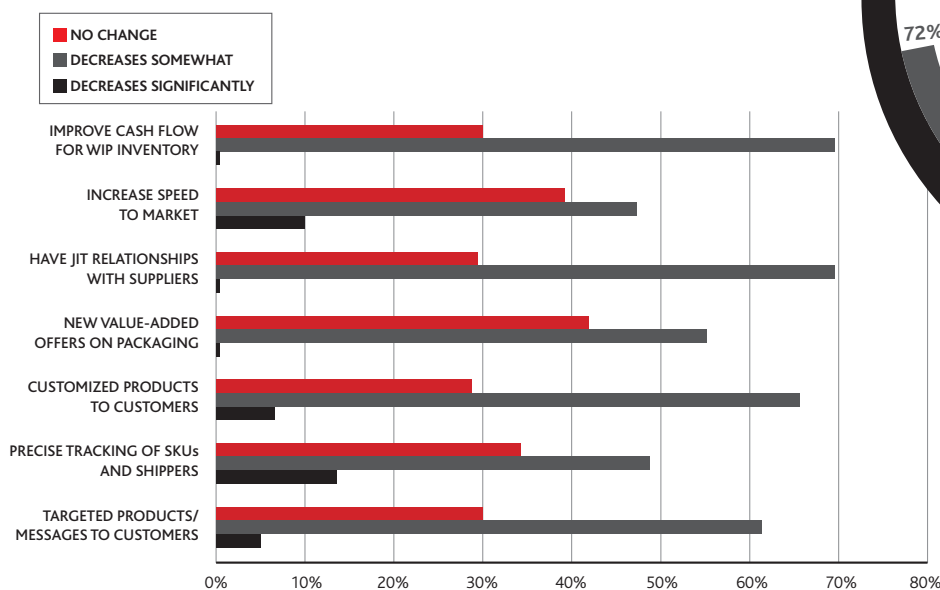
Brand Owners and retailers view
of the Digital Value Proposition



Source: Karstedt Partners

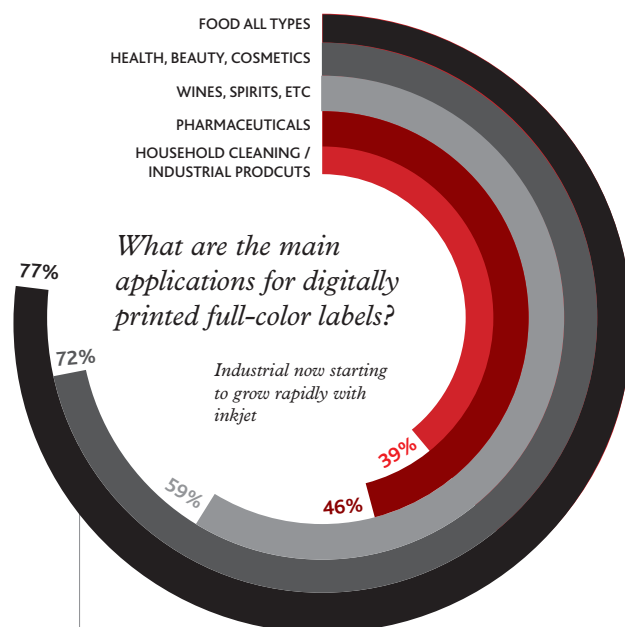
DIGITAL PRINTING REPRESENTS 18% OF GLOBAL PS LABEL VALUE

Would brand owners be willing to pay more for specific digital print values?



Source: Karstedt Partners

What are the main applications for digitally printed full-color labels?



Industrial now starting to grow rapidly with inkjet

DIGITAL PRINTING REPRESENTS 7% OF GLOBAL PS LABEL VOLUME

Global label *associations*

Global Association Members of the L9

NORTH AMERICA

TLMI ^[1]

The Tag & Label Manufacturers Institute
President: Jeff Dunphy

The TLMI has been meeting the needs of the association's converter and supplier members since 1933, continuously positioning itself as an industry resource for its members and for the greater North American narrow-web industry. The TLMI is comprised of over 300 members from North America. As sustainability continues to drive all facets of printed packaging, the TLMI Label Initiative for the Environment (LIFE) Certification process is a tool that association members are using to differentiate themselves and to demonstrate their commitment to environmental best practices.

EUROPE

FINAT ^[2]

The pan European association for self-adhesive labels and adjacent narrow-web technologies
President: Kurt Walker

FINAT was founded in 1958 in Paris. With more than 500 member companies in over 50 countries, FINAT provides not just a European but a global platform for self-adhesive label printers and suppliers to meet, network, exchange and enhance collective knowledge and expertise, develop and maintain standards and tests, provide the facilities for management development and education, and to promote the industry as a dynamic, creative and innovative workspace. The association has a Young Managers Club to develop future leaders.

ASIA

PEIAC ^[3]

Printing and Printing Equipment Industries of China
President: Tan Jun Qiao

The Label Printing Sub-Association of PEIAC was founded on 16 June 2008. The major tasks of the label printing sub-association are: to assist the government in shaping the label printing industry's development strategy; making proposals and offering suggestions to government on macro policy decision and industrial policies; to adjust the import and export tariffs of label equipment; to set the national standards for label printing products and materials, and organize quality evaluation activities for the new printing products.



LATIN AMERICA

AMETIQ ^[4]

La Asociación Mexicana de Etiqueteros
President: Keren Becerra

The Mexican Association of Label Companies (La Asociación Mexicana de Etiqueteros), AMETIQ, was created in 2008 by six label manufacturers. The association's main objective is to strengthen the flexographic printing and converting industry through active collaboration of each of its members and seeks to integrate more partners – converters and industry suppliers – who are interested in participating in this goal.

SOUTH AMERICA

ABIEA ^[5]

Associação Brasileira das Indústrias de Etiquetas Adesivas
President: Francisco Neto

ABIEA, founded in 1986, aims to organize and promote events such as meetings, congresses, courses, seminars and prize competitions for the benefit of its members. ABIEA publishes the magazine 'O Auto Adesivo', the official communication vehicle for the country's label sector, read by converters, suppliers, end users, publicity agencies and other companies in the field.

OCEANIA

LATMA ^[6]

Label and Tag Manufacturers Association of Australia
President: Mark Easton

LATMA represents the Australian label industry. Started over 30 years ago, LATMA originally was made up of separate state associations. In 1991, the States formed the National LATMA umbrella. It continues to be a strong presence in all locations and now has over 70 voting members across five states.

ASIA

LMAI ^[7]

The Label Manufacturers Association of India **President:** Vivek Kapoor

The LMAI is the central body incorporated by label manufacturing members, founded in 2002. It currently boasts at least 275 successful members across India. The LMAI has organized multiple conferences, label awards and contests and participated in many exhibitions at an international level. It posts quarterly newsletters and hosts meetings to share information about the latest IT systems related to marketing and supply chain management.

OCEANIA

SALMA ^[9]

Self-Adhesive Label Manufacturers Association
President: Trevor Bowles

SALMA represents the label, ticket and tag sector of the New Zealand printing industry. The association focuses on ensuring members are kept abreast of changes that are relevant to their business and aims to promote the products and services of the membership to purchasers of print. SALMA has a membership of over 40 companies which includes approximately 90 percent of the label industry in New Zealand. The association continues to provide a wide range of services and is involved in a number of activities on behalf of the label sector of the print industry.

ASIA

JFLP ^[8]

The Japanese Federation of Label Printing Industries
President: Mitsuo Komiyama

The main activities of the JFLP include developing environmental preservation measures, steering an annual label competition and the collection of members' patent information. JFLP boasts over 600 members representing a total revenue of at least 500 billion yen.



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Papers of the world label collection
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World Label Awards

The World Label Award Winner's are revealed courtesy of chairman Tony White

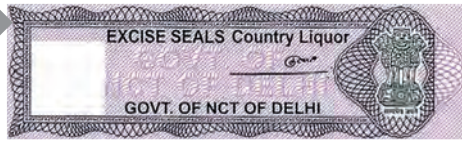
FINAT

Class 1

Flexo Line

Pragati Pack (India) Pvt. Ltd., India

Security Label Excise Seals Country Liquor was printed on Avery Dennison clear BOPP film material with an Omet Varyflex 530. The 4-color process work used Flint UV inks



LATMA

CLASS 3

Flexo Color Process

Multi-Color QLD in Australia produced the Ministry of Ice Cream labels.

SALMA

Flexo Color Process

Admark Visual Imaging, New Zealand

The Spiderman in-mold label was printed with a Nilpeter FA-4 press on a Synthetic Technologies white in-mold PPE in 4-color process plus varnish.



JFLP

CLASS 4

Flexo Wines/Spirits

Chugoku Seal Printing

The Kohaku labels were converted on a Nilpeter FA-4 press on Lintec S Bright PW 8E substrate with 5 colors, using UV Toka inks and embossing.

TLMi

Flexo Wines/Spirits

Collotype Labels USA

The converter produced the Jackson-Triggs Proprietors' Selection Shiraz on its Gallus EM280 press using 7 colors. The material is Diamond Crest with construction details as follows WS/RS3/1.2PET. Siegwark UV inks were used plus foiling, varnish and embossing.



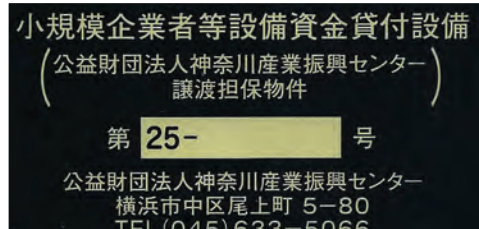
JFLP

CLASS 5

Letterpress Line

Sansaisya

The Serial Number Labels were made on an Onda OPM W350 4S press on Maruu matte gold substrate with Toyo inks and a varnish.



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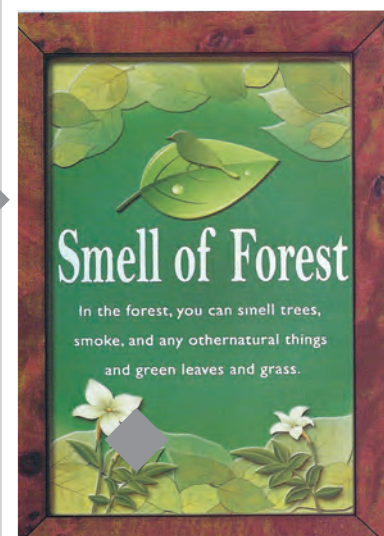


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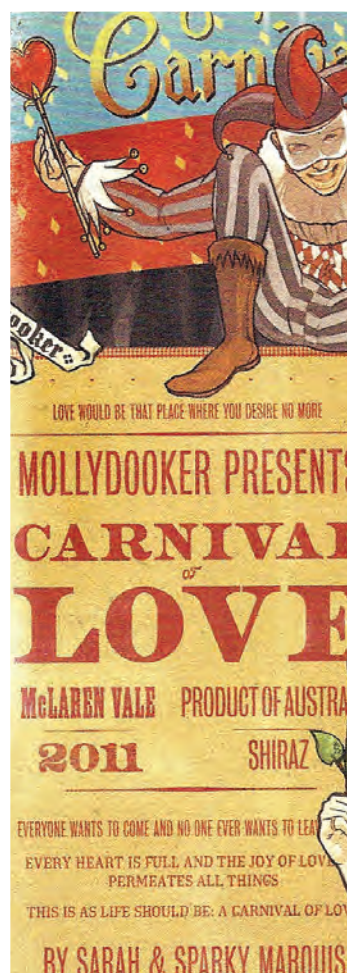
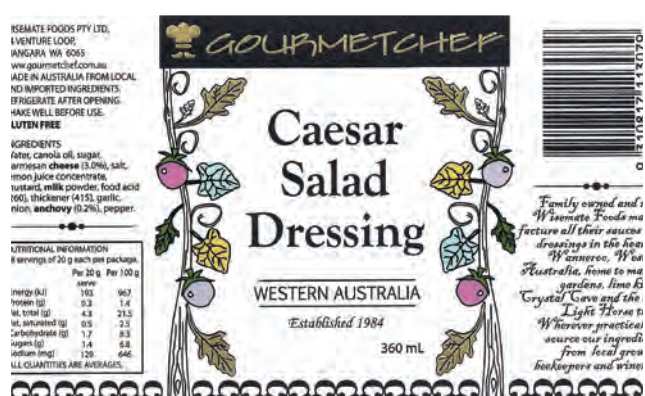
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**JFLP**
Class 7
Letterpress Color Process
Sato Printing

A Taiyo Kikai TLS s 260/SankiSMP 350 press printed the Smell of Forest labels on a Lintec Gloss PW 8K Blue with 4 colors, varnish and foiling.

**JFLP**
Class 8
Letterpress Wines/Spirits
Shinwa Label Printing

The Hana* fuwawa labels were produced on NS 250 5CLF/Onda 250 U7S presses on a Marusho Chemical Mattcoat ME 8GB media. The process required 6 colors of UV Toka inks plus foiling.

**TLMI**
Class 12
Offset Wines/Spirits
Collotype Labels USA

The Farella Malbec 2009 labels were produced on a Gallus TCS 250 press with Fasson Killer White uncoated stock using Siegwark UV inks in 5 colors plus foiling and embossing.

**JFLP**
Class 11
Offset Colour Process
Fuji Mark

An Iwasaki TR 2 press printed the Barbie Nail Polish Remover labels on Daio Art 73 paper with Kuboi Ink and Toka inks in 5 colors plus lamination.



FINAT**Class 13****Combination Line***Schreiner Group*

The Automotive Security Logistic Labels were made on a Gallus/Viva press using Ritrama paper and a combination of UV Zeller+Gmelin and SICPA inks in 5 colors. Holographic foil and thermo-chromatic inks are incorporated.

**TLMI****Class 15****Combination Color Process***McDowell Label & Screen Printing*

The converter used its Gallus press to create the Peace & Harmony labels on Bonset material with 4 colors, foil, varnish and embossing.

**JFLP****Combination Color Process***Shinwa Label Printing*

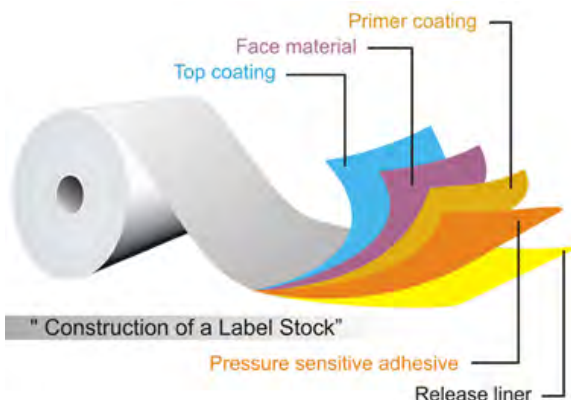
The Japan Premium Miyabi labels were produced on Sanjyo NS 250 5CLF/Onda 250 3S on Marusho Chemical Mattcoat MS Pearl material in 5 colors with foil and embossing.

TLMI**Class 14****Combination Line/Tone***McDowell Label & Screen Printing*

The converter used its Gallus press to produce the P6 Extreme Labels on Ritrama with Actega inks.



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- Exporting to 22 plus countries, spread across all continents
- Having more than 200 products. This includes Films, Paper, Thermals, Specialty & Security Products with Hot Melt & Acrylic Adhesives.
- Understands the needs and demand of self adhesive material for different types of industries.
- Has sold over 2.6 Billion running meters, which is going around the earth 64 times.
- Advantage of being reliable supplier.

SMI Coated Products Private Limited

Tel:- +91 22 4204 8000; Fax:- +91 22

28523897

Website:-

Label Stocks

**TLMI****Class 16**

Combination Wines/Spirits
McDowell Label & Screen
Printing

The Ten High labels were made on a Gallus press using Fasson material and Actega inks plus a varnish.

LATMA

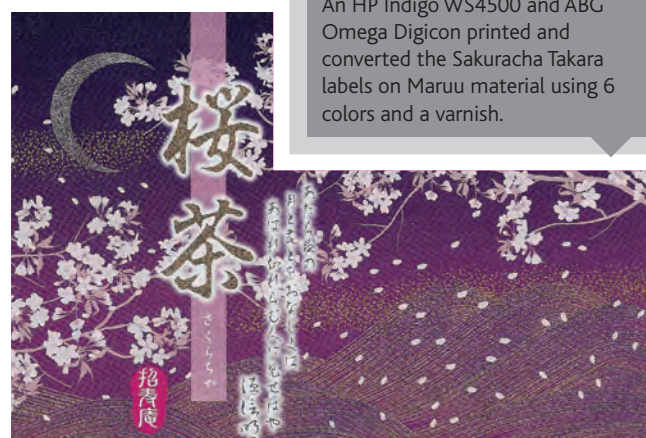
Combination Wines/Spirits
Collotype Labels Australia

The St Leonards -Wahgunyah required 2 colors, foiling and embossing

JFLP**Class 17**

Digital Printing
Takara Pac

An HP Indigo WS4500 and ABC Omega Digicon printed and converted the Sakuracha Takara labels on Maruu material using 6 colors and a varnish.



VIVA340
VIVA420

The alternative to
DIGITAL & FLEXP
for short run label printing

Aniflo

Keyless offset

Eur 3 PER PLATE
5-MINUTE PLATE-MAKING
NATURALLY HD
EXTENDED GAMUT

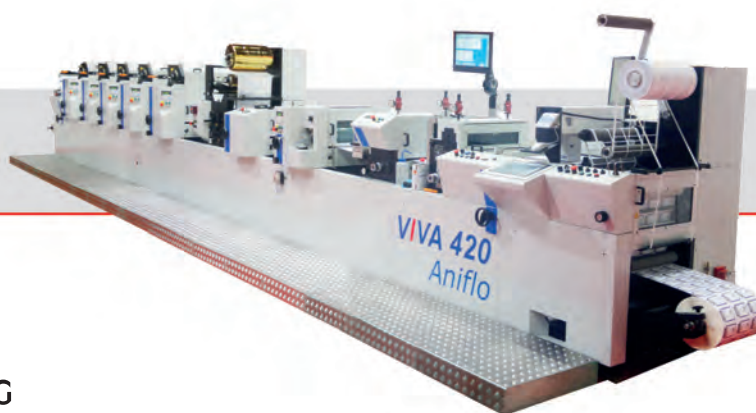


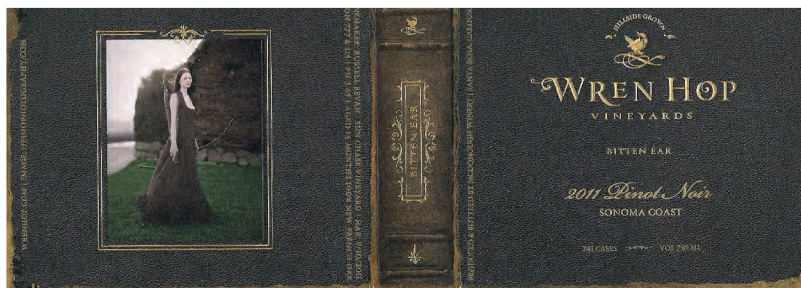
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office@codimag.fr





TLMI

Class 18
Digital Wines/Spirits
ColloTYPE Labels USA

The Wren Hop Vineyards Pinot Noir 2011 were produced using an HP Indigo and ABG Digicon on Wausau Coated stock in 4 colors plus foil, varnish and embossing.

LATMA

Digital Wines/Spirits
Ultra Labels

The Ocean View Estate 2012 Luscious Harvest labels were created on an HP Indigo 6000 and ABG Digicon using a Matt BOPP substrate with 6 colors, foil, embossing and varnish.



FINAT

Class 19**Screen****Kolibri Labels**

The converter produced the A Nice Liqueur labels on an ILMA press with Fasson PP film and Ruco inks in 5 colors with varnish.

JFLP

Class 21**Booklets****Sato Printing**

An HP Indigo WS6600 and a Sanki 351 combined to print the Coupon Labels on Lintec/YUPO VES85 OP1 GB80 material requiring 6 colors on each side plus foil, varnish and lamination.



FINAT

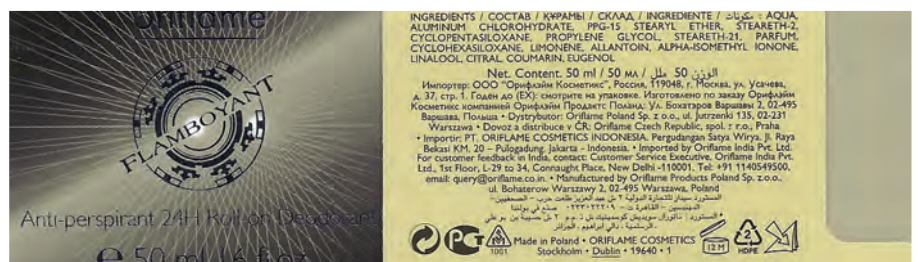
Class 22
Innovation
Stratus Packaging

The converter used an Arsoma EM 410 press to produce the Etiquette IXcode for Banks on Avery Dennison PP clear/ PP laser/ PE stretch film with a combination of Flint UV and water-based inks in 4 colors.

JFLP

Innovation
Azegami Seal Printing

The converter used an Onda OPM250 4A to create the Kaleidoscope Azegami labels on a Oji Tac LD Ivory C/C50 substrate.

**World Label Awards**

The World Label Association Awards competition was introduced in 1991 three main associations taking part. The Europeans, the Japanese and the American (*FINAT, JFLP, TLMI*). Since then many more associations have joined the competition, all members of the L9 group of associations.

The criteria for entry is that the WLA label must have won an award in the local, domestic competition ie FINAT. Entries can only be submitted by and through one of the L9 associations. The awards are presented at the respective association events apart from the newly introduced Best of the Best awards which are presented during either Labelexpo Americas or Labelexpo Europe during the Tarsus awards evening.

More details of how the WLA awards works can be found on the following website www.worldlabelassociations.com. Where up to date information and contact information can be found.

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Locations

〈Head Office〉 Nishi-Shinjuku Mitsui bldg. 15F, 6-24-1, Nishi-Shinjuku, Shinjuku-ku, Tokyo 160- 0023, Japan

〈Factory〉 Innorev Bldg. Phase 6A Lot 3281-I, Special Export Processing Zone, Laguna Technopark, Binan, Laguna 4024 Philippines
888/43 Moo9 Soi Roongcharoen Lieb Klong Suvarnabhumi Road, Bangpla Bangplee Samutprakarn 10540 Thailand



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- Chill Roller for optimized curing of heat sensitive film and foil
- Digital End-to-End Workflow with LFS 330



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39042 Brixen/Bressanone, Italy
P.: +39 0472 81 01 11
F.: +39 0472 83 09 80
www.durst-online.com
label@durst.it

Product category *index*

A

Adhesives
Air/water treatment systems
Anilox rolls and doctor blades
Anilox rolls/press cleaning systems
Archival and filing systems
Automatic labelers

B

Barcode printers
Barcode readers
Barcode verifiers
Biodegradable films
Booklet label presses
Books, reports, publications

C

Charging and discharging systems
Coating/laminating machines
Cold foiling
Color management and control
Color proofing equipment
Computer imprintable substrates
Computer label dispensers
Cores and core cutters
Corona and flame treaters
Cylinders
Cylinders, printing and magnetic

D

Data processing services
Die-cut labels
Dies
Dies, rotary, flat and flexible (magnetic)
Digital converting equipment
Digital printing
Digital proofing
Direct thermal synthetic labelstocks
Dome labeling/doming machines
Drive and control systems
Dry peel products
Drying systems

E

Electronic article surveillance (EAS)
Encoding systems
Engraving machinery
Environmental solutions

F

Fabric label materials
Fabric label presses
Finishing equipment
Flat and flexible (magnetic)
Flexible packaging
Flexo presses

G

Gearboxes, gearwheels
Glue inspection systems
Gravure presses

H

Hand-held labeling
Hologram equipment
Holograms/OVDs (optically variable devices)
Hot foil machinery
Hot stamping foils
Hot stamping/embossing cylinders

I

Industry consultants
Industry service suppliers
Ink control/dispensing systems
Ink delivery systems
Inks
In-mold and roll-fed label films
Insertion systems
Integrated label/card equipment

L

Label cutting/stamping machines
Label dispensers
Label inspection equipment
Label overprinters and print/apply systems
Label papers
Labeling machines
Labels (pre die-cut)
Laser and inkjet printers
Laser/cutting engraving systems
Letterpress presses
Linerless and self-wound labels

M

Metalized substrates
MIS software
Multi-ply peel and reseal labels

O

Offset blankets
Offset presses
Offset presses, machines/equipment

P

Plate mounting equipment
Plate mounting tapes
Plates and platemaking equipment
Pre-press and repro services
Pre-press systems
Presses for cartons/boxes
Presses for flexible packaging
Presses for polyamide casings
Presses for tube laminates
Pressure-sensitive films
Pressure-sensitive papers
Pressure-sensitive tapes
Printing and magnetic
Process/performance additives
Product ID/tracking solutions
Punching tools

R

Recycled content papers and films
Release papers and films
Roll handling equipment
Rollers
Roll-fed carton board
Roll-label and rotary die-cutting presses
Roll-label presses
Roll-label presses, combination
Rotary

S

Scanning equipment
Screen printing machinery/units/parts
Security inks/varnishes
Security printing
Security seals and labels
Security/holographic labels and materials
Self-cling films

Semi-rotary presses
Sheeting
Sheeting, slitting and folding machinery
Shrink films
Silicone release coatings
Sleeve systems
Slitters and rewinders
Slitting and folding machinery
Specialty coating/converting
Splicing equipment
Static elimination systems
Stretch films
Synthetic face materials
Systems integrators

T

Tactile warning labels
Tag materials
Tamper proof labels/laminates
Test and inspection equipment
Thermal
Thermal paper labelstocks
Thermal transfer ribbons
Thermal, laser and inkjet printers
Thermochromic and photochromic inks and labels
Time/temperature indicator labels
Trade associations
Trade press
Training

U

Used and rebuilt presses
UV flexo presses
UV lamps and curing systems

V

Video inspection systems
VIP materials
Viscosity controls

W

Waste and trim removal/disposal
Web and sheet management equipment
Web cleaning systems
Web guiding and tension
Web inspection and control
Web marking systems
Web transport/converting bases

Product category *listings*

Adhesives

Advanced Polymers Int'l
Arjobex/Polyart
Ashland
Avery Dennison
Bluestar Silicones
Bostik
Braga Comercio Industria
Collano Adhesives/nolax
Craig Adhesives & Coatings
D&K Coating Technologies
Dow Corning Corporation
Edson International
Environmental Inks and Coatings
Flint Group Narrow Web
Franklin Adhesives & Polymers
GSB-Wahl
H.B. Fuller Europe
Henkel
Icap-Sira Chemicals And
Polymers
Interflex Laser Engravers
INX International Ink
ITW Dynatec
K Laser Technology
KCC Silicones
Keco
Kyoto International Corporation
Mactac
Metagalaxy Industries
Minus Nine
Mirage Inks
Momentive Performance
Materials
Nastrificio di Cassano
Novamelt
Omnova Solutions
PCT
Printech Machinery Trading Canada
Pulse Roll Label Products
Saiden Technologies
Shandong Taibao Anti-
Counterfeiting Technology
Products
Shanghai Jinda Plastic
Shenzhen Moma Technology
Spandex Group
Specialty Tapes
Squid Inks
Taiwan Regional Association of
Adhesive Tape Manufacturers
UL
Uvitec Printing Ink
Valco Melton
VPF
Wacker Chemie
Zeller+Gmelin

Air/water treatment systems

DRAABE Humidification
Flexo Wash
IRAC
NexGen Enviro Systems

Anilox rolls and doctor blades

All Printing Resources
Allison Systems Corporation
Alphasonics
Apex Group of Companies
Cheshire Anilox Technology
Conversource
Converttech Equipment
Correct-Touch Graphic Arts
CTS Industries
Dantex Graphics
DELTAPAK
Esterlam International
Flexoconcepts
FLXON
Harper Corporation of America
Harper Graphics
Interflex Laser Engravers
Keco
Max Daetwyler Corporation
Mona Equipments
Praxair Surface Technologies
Provident Group
RecylS
Rossini North America,
Rotary Technology International
RotoTechnix
Swedev AB
Tech-Cell
Troika Systems
UV Graphic Technologies
Zecher

Anilox rolls/press cleaning systems

Alphasonics
Apex Group of Companies
Cheshire Anilox Technology
Conversource
CTS Industries
D.W. Renzmann Apparatebau
Dantex Graphics
DIP
Distribuidora Gráfica Novaro
Doyle Systems
Flexo Wash
FLEXOCLEANERS
Flexomaid
GSB-Wahl
Harper Corporation of America
Harper Graphics
Impreglon Cellramic

Inglese
IRAC
Max Daetwyler Corporation
Pamarco Global Graphics Europe
RecylS
Solutions Graphiques
Sonic Solutions
Tech-Cell
Troika Systems
Zecher

Archival and filing systems

Jalema Filing Systems
Label Traxx
SISTRADE

Automatic labelers

cab Karlsruhe
Dispensa-Matic Label Dispensers
Magnum Magnetics Corporation
MALBATE
Multifeeder Technology
PCM Image-Tek
START International

Barcode printers

Automatic Identification
Systems ADVENT
Atlantic Zeiser
BUSKRO USA
cab Karlsruhe
CleanTech Cleaning Cards
Colordyne Technologies
D.P.R.
Dakota Integrated Solutions
Dice Graphic Technologies/
Prototype and Production
Systems
DJM variable data printing
Domino North America
DPST & DPST Inks
Etilux
Francis Buhler
GSE Dispensing
Gulton
Hangzhou Todaytec Digital
Inkstar Office Appliance Factory
of Tianjin
iSys Label
Kirk-Rudy/Ohio Addressing
Machine
Mastercorp Group
MCS,
Microplex
PCM Image-Tek
Primera Technology,
Printex
Prototype & Production Systems

REA Elektronik
Shanghai Taiyo Kikai
Spandex Group
Tharo Systems
TTR Euroworks
Yeuell Nameplate & Label

Barcode readers

Axicon Auto ID
D.P.R.
GSE Dispensing
Inkstar Office Appliance Factory
of Tianjin
Label Vision Systems
Multifeeder Technology
PC Industries
Provident Group

Barcode verifiers

Automatic Identification
Systems
Axicon Auto ID

Biodegradable films

Clarifoil
Mactac
Plastic Suppliers
Teslin Substrate by PPG
Industries

Booklet label presses

CSAT
Edwards Label
Fix-A-Form International
Grafotronic
KPG Corporation

Books, reports, publications

AIMCAL
Distribuidora Gráfica Novaro
FINAT
Flexographic Technical
Association (FTA)/FLEXO
Magazine
Packaging & Converting Hotline
ProjetoPack & Associados
Revista Desktop
Zhejiang Hengfeng Packing

Charging and discharging systems

Doyle Systems
DELTAPAKFraser Anti Static
Techniques
KERSTEN Elektrostatik
Meech Static Eliminators

Coating/laminating machines

3M Converter Markets
 A&M Kinzel Siebdruckmaschinen
 AzCoat
 Bostik
 ChemInstruments
 Chemsultants
 Corona Supplies
 D&K Coating Technologies
 Davis-Standard
 Delta Industrial Services
 DG Press Services
 Diavy
 E-Max
 ETI Converting Equipment
 Fuji Copian
 Grafotronic
 H.B. Fuller Europe
 HIP-Mitsu.
 ITW Dynatec
 Kongskilde Industries
 Kroenert
 Metagalaxy Industries
 Mühlbauer
 NDC Spray Coating System
 Fabricating
 Nordson Engineering
 PCM Image-Tek
 Preco
 Rayven
 RK Siebdrucktechnik
 Shantou Yiming Holotech
 Machine
 Spandex Group
 thermalco
 UL
 UV Graphic Technologies
 Uvitec Printing Ink
 Valco Melton

Cold foiling

Continental Datalabel
 Crown Roll leaf
 DG Press Services
 K Laser Technology
 Shandong Taibao Anti-Counterfeiting Technology Products
 Univacco Technology

Color management and control

Actega Wit
 Advanced Vision Technology
 Beta Industries
 BST Pro Mark
 CGS
 Color Management Group
 Color Resolutions International
 Colordyne Technologies
 Continental Datalabel
 DELTAPAK
 Distribuidora Gráfica Novaro
 EFI
 eltromat
 Fag Graphic Systems
 Flint Group Narrow Web
 Fujifilm
 GMG Americas
 Goss
 GSB-Wahl
 GSE Dispensing

IGT Testing Systems
 Innolutions
 INX International Ink
 ISRA SURFACE VISION
 Nikka Research
 Ownx Technologies
 Perfecto Web-Control
 RK Print Coat Instruments
 Roland DG Benelux
 Roland DGA Corporation
 Siegwark USA
 SPEC
 Sun Chemical
 Tectonic International
 Testing Machines

Color proofing equipment

Actega Wit
 Agfa Graphics
 Beta Industries
 Collomix Ruhr und Mischgeräte
 Dalim Software
 Dantex Graphics
 Distribuidora Gráfica Novaro
 Eastman Kodak Company
 eltromat
 Global Vision
 GSE Dispensing
 Harper Corporation of America
 Harper Graphics
 HP Indigo
 IGT Testing Systems
 J M Heaford
 Perfect Proofer by Integrity Engineering
 Pitman, Anfa Company
 Proveedora Flexografica
 RK Print Coat Instruments
 Tesa SE
 Testing Machines
 Thwing Albert Instrument Company
 Trinity Graphic USA
 Xante Corporation
 xpedx

Computer imprintable substrates

Continental Datalabel
 Dunmore
 Dynic UK
 Hanita Coatings
 Innovia Films
 Mactac
 MDV
 Tech Folien
 Valéron Strength Films

Computer label dispensers

Axicon Auto ID
 Clements Industries
 D.P.R.
 Dispensa-Matic Label Dispensers
 Pinewood Label Systems

Cores and core cutters

Apexrototech Industries
 Berkeley Machinery
 Buycorcs.com by The Newark Group
 Conversource

Core Systems International
 Dienes Corporation
 Double E Company
 EM2
 Grafisk Maskinfabrik
 Guidolin Girotto
 Jurmet.
 Nagel Paper
 Precision AirConvey
 TGW International
 Yazoo Mills

Corona and flame treaters

3DT
 Advanced Machinery
 Berkeley Machinery
 Conversource
 Corona Supplies
 DELTAPAK
 Enercon Industries Corporation
 IEEC - PBJ Industrial Electronic
 Jemmco
 Vetaphone

Cylinders, printing and magnetic

Apple Die
 Berkeley Machinery
 Bunting Magnetics
 DELTAPAK
 Electro Optic Werkzeugtechnik
 General Metal Engraving
 Gerhardt International
 Holfeld Tool & Die
 Kocher + Beck + Rotationsstanztechnik
 Lartec - Flexible Dies
 Lederle Machine Company
 Platingtech Beschichtung
 Rotary Die Company
 RotoMetrics
 RotoTechnix
 Spilker
 Suron
 UV Graphic Technologies
 Wilson Manufacturing
 Wink Stanzwerkzeuge

Cylinders

Best Cutting Die
 Rotary Technology International
 Sinkotech USA
 Wink US

Data processing services

Computer Productivity Services
 Label Traxx
 theurer.com

Die-cut labels

Apple Die
 Beijing Zonggoc Automatic Technology
 Berkeley Machinery
 Berra
 Blumer Maschinenbau
 Continental Datalabel
 DG Press Services
 Edwards Label
 Eson
 Etilux

Folien Fischer
 GMG Americas
 Grafotronic
 Guidolin Girotto.
 Hop Industries
 Huzhou Hengxin Trademark
 Making Bringing
 Labeltechs di Gabriele D'Onofrio
 Lieben Dies
 LTHD Corporation
 MultiSTIQ International Coating
 Nadco Tapes & Labels
 Neuralog GHS Label Printers
 Open Data
 PCM Image-Tek
 Polar Mohr
 Polinas Plastic of America,
 Roland DG Benelux
 Roland DGA Corporation
 Seal King
 Serlem
 Taiwan Regional Association of Adhesive Tape Manufacturers
 UBIQUE.TAG
 Weldon Celloplast
 Yeuell Nameplate & Label

Dies

Best Cutting DieLederle Machine
 Midway Rotary Die Solutions
 Rotary Technology
 InternationalRotoTechnix
 Schober
 Sinkotech
 Universal Engraving
 Wink

Dies, rotary, flat and flexible (magnetic)

Apple Die
 Atlas Die
 Berkeley Machinery
 Best Cutting Die
 Blumer Maschinenbau
 Bunting Magnetics
 Central Ink Corporation
 Drophmann Easycut
 Electro Optic Werkzeugtechnik
 Emmendinger Maschinenbau
 Eson
 FST
 General Metal Engraving
 Holfeld Tool & Die
 Kocher + Beck + Rotationsstanztechnik
 Lartec - Flexible Dies
 Lieben Dies
 Manufacturing Supplies
 Midway Rotary Die Solutions
 RotoMetrics
 Sohn Mfg
 Spilker
 Suron
 Tools & Production
 UV Graphic Technologies
 Wilson Manufacturing
 Wink Stanzwerkzeuge

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Narrow Web

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 COE Carl Ostermann Erben
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 Converting Equipment
 Corona Supplies
 CSAT
 Daco Solutions
 Delta Industrial Services
 DG Press Services
 Distribuidora Gráfica Novaro
 Dyna-Tech Adhesives
 Grafisk Maskinfabrik
 Grafotronic
 Heraeus Noblelight
 HP Indigo
 Hunkeler
 LeoMat
 LTHD Corporation
 Mida Maquinaria
 Newfoil Machines
 Preco
 Rapid Label Systems
 Smag Graphique
 SEI Laser
 UV Ray
 Werosys
 Xeikon

Digital printing

A&M Kinzel Siebdruckmaschinen
 AB Graphic International
 Afinia
 Agfa Graphics
 Allen Datagraph Systems
 ALS Engineering
 Atlantic Zeiser
 Berkeley Machinery
 Braden Sutphin Ink
 BUSKRO
 Colordyne
 Continental Datalabel
 Converttec Graphic Technics
 CSAT
 DG Press Services
 Dice Graphic Technologies/
 Prototype and Production
 Systems
 Distribuidora Gráfica Novaro
 Diversified Labeling Solutions
 DJM variable data printing
 Domino North America
 DPL Industri, UV Curing Systems
 Durico C&T
 Durst Phototechnik
 Edale
 EFI
 Epson America
 Fuji Copian
 Fujifilm
 GRAPHI MECC GROUP
 Hewlett Packard
 HP Indigo
 Industrial inkjet
 INX International Ink
 iSys Label
 KG Digital Solutions
 Kodak
 Komori

KPG
 m print morlock
 MCS
 Mimaki Europe
 Miyakoshi Printing Machinery
 Nadco Tapes & Labels
 Neuralog GHS Label Printers
 Newfoil Machines
 Nilpeter
 NuCoat
 OKI proColor
 Ownx Technologies
 PCM Image-Tek
 Primera Technology
 Propyplast
 Prototype & Production Systems
 Rapid Label Systems
 Roland DG Benelux
 Roland DGA Corporation
 Screen USA
 SEI Laser
 SHIKI MACHINE SUPPLY CORP.
 Spandex Group
 Stork Prints
 Sun Chemical
 Suntech
 Super Web Digital
 Suron
 Werosys
 Xante Corporation
 Xeikon

Digital proofing

CGS
 Color Management Group
 Continental Datalabel
 Conversource
 CSAT
 Distribuidora Gráfica Novaro
 EFI
 Epson America
 Graymills Corporation
 Kodak
 Mimaki Europe
 Roland DG Benelux
 Roland DGA Corporation
 Werosys

Direct thermal synthetic labelstocks

Appvion
 Continental Datalabel
 Dakota Integrated Solutions
 Durico C&T
 IIMAK Europe
 Koan Hao Enterprise
 Ricoh Electronics
 Ricoh Industrie FranceS
 Spandex Group

Dome labeling/doming machines

A&M Kinzel Siebdruckmaschinen
 Color-Dec Italy
 Demak
 Morgan Design Group

Drive and control systems

A&M Kinzel Siebdruckmaschinen
 Altec Vision Equipment
 Andantex USA

Berkeley Machinery
 Bosch Rexroth
 Davis-Standard
 Dover Flexo Electronics
 eltromat
 FMS Force Measuring Systems
 Mach III Clutch
 MEROBEL
 Re.Spa Controlli Industriali

Dry peel products

Accucote
 Ashland
 Berkeley Machinery
 Folien Fischer
 Paragon Inks
 Strata-Tac
 thermalco
 VPF

Drying systems

A&M Kinzel Siebdruckmaschinen
 AAA Press
 Al's Co UV
 Brewer UV Systems
 GEW
 Glunz & Jensen
 Degraf Italy
 Heraeus Noblelight
 Highlight UV-Technology
 Honle UV America
 IST Metz
 Noritsu America Corporation
 PCMC
 PCT
 Phidastien
 R.C. Lamps
 XDS
 UV Ray
 Uviterno

Electronic article surveillance (EAS)

Berkeley Machinery
 Thin Films

Encoding systems

Atlantic Zeiser
 Euro Plus d.o.o.
 Francis Buhler
 Transfer Trade

Engraving machinery

Berkeley Machinery
 SEI laser
 Stork Prints

Environmental solutions

Alltrade Recycling Equipment
 Berkeley Machinery
 Buycorcs.com by The Newark
 Group
 Clarifoil
 Flexomaid
 NexGen Enviro Systems
 Noritsu America Corporation
 Sun Chemical

Fabric label materials

B-Coreorporation
 Comercial Arquè

Dynic UK
 Huzhou Hengxin Trademark
 Making Bringing
 Huzhou Kingdom Coating
 Industry
 Huzhou Siny Label material
 Icap-Sira Chemicals And
 Polymers
 ITD
 Leviteks
 Metagalaxy Industries
 MultiSTiQ International Coating
 Nastrificio di Cassano
 Roll Cover Italiana
 Ruian Jingda Printing Machinery
 Tesa SE
 TTR Euroworks

Fabric label presses

A&M Kinzel Siebdruckmaschinen
 Focus Label Machinery
 Label Planet
 MALBATE
 Ruian Jingda Printing Machinery

Finishing equipment

A&M Kinzel Siebdruckmaschinen
 ALS Engineering
 Ashe Converting Equipment
 Berkeley Machinery
 Blumer Maschinenbau
 Brotech Graphics
 Cartes
 Catbridge Machinery
 Color-Dec Italy
 Converting Equipment
 D&K Coating Technologies
 D.P.R
 DCM USIMECA
 De Rossi Vittoriano
 Delta Industrial Services
 Demak
 DG Press Services
 Durst Phototechnik
 ERREPI
 GIC-Omegher
 Grafotronic
 Heraeus Noblelight
 Hunkeler
 KPG Corporation
 Labeltechs di Gabriele D'Onofrio
 LeoMat
 Lieben Dies
 Longford International
 Maxcess International
 MELZER maschinenbau
 PCM Image-Tek
 Polar Mohr
 Prati
 ROTOCONTROL
 Rotoflex
 Soma Engineering
 Spartanics
 Tamarack Products
 Xeikon

Flat and flexible (magnetic)

Lederle Machine Company
 Rotary Technology International
 RotoTechnix
 Schober

Take a closer look...

FOCUS

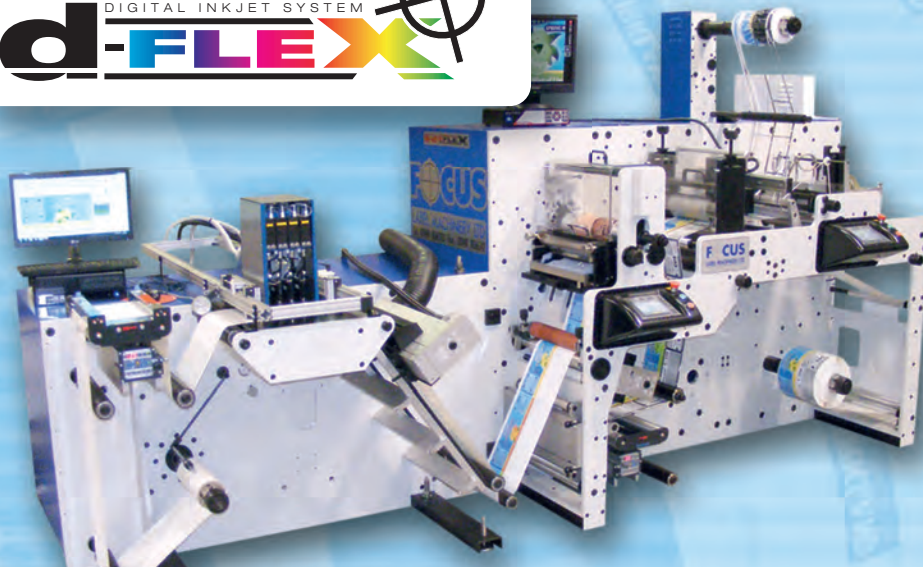
LABEL MACHINERY LTD

www.focuslabel.com



Servo Print Technology

- Full servo drive technology
- Simple HMI touch controls
- Open architecture print station design for rapid job changes
- One touch pre-register set up
- Auto-register
- Re-register option for pre-printed web
- Ultra-efficient, low-energy drying systems
- Digital inkjet options, with variable data facility
- Rail system for easy transport of overhead press options
- High speed printing & converter



Digital Inkjet System

- Integrated converting solution
- Print & supply on demand
- Reduced waste & single pass
- High end print driver software & RIP
- Variable information printing
- Four colours & White option
- No click charges
- Only pay for ink you actually use
- Ink available from variety of sources
- Synthetic & paper substrates (coated)
- Combined digital & flexo printing
- Re-register option for pre-printed webs
- Stand alone flexo printing, converting & coating press

Focus Label Machinery Ltd: Kendryl Park • Chapel Lane • Bingham Nottingham • NG13 8GF • England

Telephone: +44 (0) 1949 836223 • Fax: +44 (0) 1949 836542 • E-mail: admin@focuslabel.com • Web: www.focuslabel.com

Sinkotech
Universal Engraving
Wink

Flexible packaging

Adare Advantage
Flexomaid
GMG
Goss
Jindal Films
Keco
Kodak
Kolon
Newell Busines Services
Screen
Shandong Taibao Anti-Counterfeiting Technology Products

Flexo presses

AAA Press International
Berkeley Machinery
Convertech Equipment
Creed Engineers
Dowell Printing Equipment
Edale
Edwards Label
ERREPI
ETI Converting Equipment
Etirama
FlexoExport
Focus Label Machinery
Gallus
Gonderflex International
Goss
Grafitec Web
H.C. Miller Press
Heidelberger Druckmaschinen
Interflex Laser Engravers
J&J Converting Machinery
K2 International
Keco
Kyoto International Corporation
Labelform Graphics
Lombardi Converting Machinery
MALBATE
Mark Andy
Mona Equipments
MPS Systems
Multitec Aids
Nilpeter
Nuova GIDUE
Omet
Orthotec
PCMC
Printech Machinery Trading
Propheteer
Propyplast
Rotary Die
Rotatek
Shanghai Taiyo Kikai
Sohn
Styers Equipment
Super Web Digital
TRESU
UV Graphic Technologies
Webtech
WeiFang DongHang Precision Machine
Zhejiang WeiGang Machinery
Zhongtian Machinery Works

Gearboxes, gearwheels

Andantex
Berkeley Machinery
Bosch Rexroth
Kocher + Beck + Rotationsstanztechnik
MEROBEL
RotoTechnix
Suron

Glue inspection systems

Berkeley Machinery
KETT US
Moist Tech
Mühlbauer,
Nordson Engineering
Valco Melton

Gravure presses

Berkeley Machinery
Chesnut Engineering
Convertech Equipment
DCM USIMECA
DNP IMS America Corporation
Dowell Printing Equipment
ETI Converting Equipment
Freschi Italia
Mona Equipments
UV Graphic Technologies

Hand-held labeling

Axicon Auto ID
Clements Industries
D.P.R.
Dispensa-Matic Label Dispensers
Open Data
Pinewood Label Systems
Printex
START International

Hologram equipment

Breit Technologies
DCM USIMECA
Diavy
DMS
Hologram Manufacturers Association of India
Mühlbauer
Newfoil Machines
Pantec GS Systems
Sam Meccanica
Schoberttechnologies
UV Graphic Technologies

Holograms/OVDs (optically variable devices)

API
Breit Technologiesn
Diavy
Crown Roll leaf
DMS
FLEXcon
Hologram Manufacturers Association of India)
HOLOMEX
Holostik India
ITW Foils
K Laser Technology
Kurz Transfer Products LP
Lemmaco

Leonardus
Shanghai Fudan-Techsun New Technology
Shantou Yiming Holotech Machine
Tesa Tape

Hot foil machinery

A&M Kinzel Siebdruckmaschinen
Berkeley Machinery
Berra
Bunting Magnetics
Cartes
DG Press Services
Diavy
DMS
Emmendinger Maschinenbau
Etirama
FlexoExport
Grafitec Web
Iwasaki International
MELZER maschinenbau
Mida Maquinaria
Mühlbauer
Newfoil Machines
Pantec GS Systems
Prisma
Sam Meccanica
Schoberttechnologies
Starfoil Technology
Telstar
Universal Engraving
UV Graphic Technologies
Webtech

Hot stamping foils

API
Apple Die
Armor
Crown Roll leaf
DaLian Fujisan Office Equipment
DRAGON FOILS
Drohmann Easycut
Eson
Far East Yu La Industry
Filmquest
Hangzhou Todaytec Digital
Holostik India
Infinity Foils
ITW Foils
Jiaozuo Zhuorim Digital Material
K Laser Technology
Kurz Transfer Products
Lemmaco
LEONHARD KURZ FAR EAST
Leviteks
Mastercorp
Newell Busines Services
Sanyo Corporation of America
Shandong Taibao Anti-Counterfeiting Technology Products
Signet Marking Devices
Stamp Foil
Starfoil Technology
TTR Euroworks
Univacco Technology
Zhejiang Hengfeng Packing

Hot stamping/embossing cylinders

A&M Kinzel Siebdruckmaschinen
Apple Die
Berkeley Machinery
Bunting Magnetics
Dixie Graphics
DMS
General Metal Engraving
Holfeld Tool & Die
Kocher + Beck
Rotary Technology
RotoMetrics
RotoTechnix
Signet Marking Devices
Spilker
Starfoil Technology
Trinity Graphic
Universal Engraving
UV Graphic Technologies

In-mold and roll-fed label films

Advanced Packaging Films
AET Films/Taghleef Industries
Allen Plastic Industries
ARclad
Arjobex/Polyart
COSMO FILMS
Durico
ExxonMobil Chemical Company
Filmquest
Granwell Products / Polyolith
Hop Industries
Innovia Films
MPI Release
Plastic Suppliers
Polinas Plastik
Propyplast
Sanyo
Serlem
Sidaplast
Taghleef Industries
Teslin Substrate
Treofan
Valéron Strength Films
Yupo

Industry consultants

AIMCAL
Berkeley Machinery
Buycor.com by The Newark Group
ChemInstruments
Chemsultants
COE Carl Ostermann Erben
Color Management Group
Computer Productivity Services
Dow Corning
Esterlam International
FFH
FINAT
Flexographic Technical Association (FTA)/FLEXO Magazine
Fox Valley Technical College
Harper Corporation of America
IGT Testing Systems
International Financial Services
ProjetoPack & Associados
SISTRADÉ
theurer.com
Trinity Graphic

UV-Technik Meyer

Industry service suppliers

Applied Rigaku Technologies
Berkeley Machinery
DG Press Machines
FFH
Heights UK
Kolon
Precision AirConvey
Sun Chemical

Ink control/dispensing systems

Actega Wit
AP Systems
Convertech Equipment
DELTAPAK
DIP
DNP IMS America Corporation
Environmental Inks and Coatings
Esterlam International
Fag Graphic Systems
Fujifilm
Graymills Corporation
GSE Dispensing
Innolutions,
INX International Ink
Pulse Roll Label Products
RK Print Coat Instruments
Shanghai Taiyo Kikai
Siegwerk USA Co
SPEC,
Sun Chemical
Wikoff Color Corporation
Zeller+Gmelin

Ink delivery systems

Environmental Inks and Coatings
FLXON
TRESU Group

Inks

Actega Wit
Alden & Ott Printing Inks
American Water Graphics
Arets Graphics
Armor
Braden Sutphin Ink
Central Ink Corporation
Collins Ink
Collomix Ruhr und Mischgerate
Color Resolutions International
Colorgraf
Distribuidora Gráfica Novaro
DPST & DPST Inks
Eckart America Corporation
ECKART
Edson International
EFI
Encres Dubuit
Environmental Inks and Coatings
Epson America
Ercon
Flint Group Narrow Web
Frimpeks
Fujifilm
General
GSB-Wahl
INX International Ink
Jänecke+Schneemann

Druckfarben

Kingfisher Inks
Lemmaco
Luminescence
Marabu
Mimaki Europe
Minus Nine
Mirage Inks
Nazdar
Noritsu America Corporation
Paragon Inks
Pulse Roll Label Products
Prototype & Production Systems
Radior
Rowat Inks
RUCO Druckfarben
Siegwerk
Squid Inks
Sun Chemical
UCS
Uvitec Printing Ink
Wikoff Color Corporation
Zeller+Gmelin

Insertion systems

AB Graphic International
bielomatik Leuze
Comercial Arquè
Creed Engineers
Edale
ITW Dynatec
Longford
MELZER
Mühlbauer
Newfoil Machines
Schobertechnologies
Smag Graphique
Spilker
Tamarack Products

Integrated label/card equipment

DPST & DPST Inks
GIC-Omegher
Hunkeler
Mühlbauer
Tamarack Products

Label cutting/stamping machines

A&M Kinzel Siebdruckmaschinen
Allen Datagraph Systems
Blumer Maschinenbau
Cartes
Daco Solutions
DG Press Services
Emmendinger Maschinenbau
FLEXOR
Freschi Italia
Gold Fai Printing Machines.
Zhaoqing
Grafotronic
Guidolin Giroto
Karlville Development
Kugler-Womako
Lartec - Flexible Dies
Lieben Dies
Link Label Machinery
m print morlock
Mühlbauer
Ownx Technologies

Polar Mohr
PCM Image-Tek
Rapid Label Systems
ROTOCONTROL
Rotoflex
Ruian Jingda Printing Machinery
Sam Meccanica
Schobertechnologies
Schober
Shantou Yiming Holotech
Machine
Sohn
Spartanics
Spilker
Starfoil Technology
Suntech
Telstar
TGW International
Wink
Zhejiang WeiGang Machinery

Label dispensers

Clements Industries
D.P.R.
Dispensa-Matic Label Dispensers
Etilux
GIC-Omegher
Labelmate
Longford
Open Data
Pinewood Label Systems
Primera Technology
Printex
START International

Label inspection equipment

AB Graphic International
Accraply
Advanced Vision Technology
Ashe Converting Equipment
Automatic Identification Systems
Axiom Auto ID
AzTech Converting Systems
Beta Industries
BST Pro Mark
Cerm Management Software
Conversource
Convertec Graphic Technics
Creed Engineers
Drello
Electromatic Equipment
Erhardt + Leimer
ERREPI
Eson
EyeC
Fag Graphic Systems
Freschi Italia
Global Vision
Grafotronic
ISRA SURFACE VISION
J&J Converting Machinery
Jurmet
K2 International
Karlville Development
KETT
Label Vision Systems
Labelmate
Labeltechs di Gabriele D'Onofrio
Laem Systems
Lake Image Systems

Lederle Machine Company
LeoMat
Mühlbauer
NDC Infrared Engineering
Nikka Research
PC Industries
Prati
Print Products
Rheintacho Messtechnik
ROTOCONTROL
Rotoflex
Ryeco
Sneep Industries
Tectonic International
Tri-Tronics
Unilux
UV Graphic Technologies
Visi-tech Systems
Web Techniques

Label overprinters and print/apply systems

Automatic Identification Systems
cab Karlsruhe
D.P.R.
Dakota Integrated Solutions
De Rossi Vittoriano
Domino North America
Francis Buhler
Grafotronic
KG Digital Solutions
Labelmate
LeoMat
MCS
PCM Image-Tek
Printex
ROTOCONTROL
Rotoflex
Tharo Systems
Transfer Trade
Tri-Tronics Company
Zhongtian Machinery Works

Label papers

Appleton
Appvion
Avery Dennison
BELLA KAGIT
Boise Paper
Camelot Papers
Cartonal Italia
Celeskit / Oracle Paper Group
Cham Paper Group
Colacril Self-Adhesive Materials
Continental Datalabel
Contract Converting
Crown Van Gelder
Dakota Integrated Solutions
Durico
Hansol Paper
Hop Industries
Huzhou Kingdom Coating
Idem Papers
Industry
Jujo Thermal
K Laser Technology
KANZAN Spezialpapiere
Lemmaco
LTHD
Mactac

Mark Products
Matthias Paper
MDV
MultiSTiQ International Coating
Munksjo
National Paper Company
NDC Spray Coating System
Fabricating
NewPage
NuCoat
Papertec
Ricoh
Shanghai Jinda Plastic
Teslin Substrate
Thilmany Papers
Tullis Russell Coaters
Ziegler Papier

Labeling machines

3M Converter Markets
A&M Kinzel Siebdruckmaschinen
ADVENT
Allen Plastic Industries
Automatic Identification
Systems
BUSKRO
cab Karlsruhe
Clements Industries
Colordyne Technologies
D.P.R.
DG Press Services
Dice Graphic Technologies/
Prototype and Production
Systems
DILLI
Dispensa-Matic Label Dispensers
Edwards Label
EFI
Freschi Italia
Gold Fai Printing Machines
Zhaoqing
Gulton
Inkstar
iSys Label
ITD
Karlville Development
Kirk-Rudy/Ohio Addressing
Machine
Magnum Magnetism Corporation
Manufacturing Supplies
Multifeeder Technology
Open Data
Packaging & Converting Hotline
PCM Image-Tek
Pinewood Label Systems
Primera Technology
Printech Machinery Trading
Canada
Printex
Rapid Label Systems
Screen
SEI laser
START International
Tharo Systems
Thermal Printer Support
Transfer Trade
Tri-Tronics Company
Zhongtian Machinery Works

Labels (pre die-cut)

3M Converter MarketsAfinia

Appleton
bielomatik Leuze
Continental Datalabel
DG Press Services
Diversified Labeling Solutions
Etilux
Hunkeler
Huzhou Hengxin Trademark
Making Bringing
Kyoto International Corporation
Labelplanet
Mactac
PCM Image-Tek
Plastic Suppliers
Platingtech Beschichtung
Ricoh Electronics
Shandong Taibao Anti-
Counterfeiting Technology
Products
themalco
UBIQUE.TAG
Welon
xpedx

Laser and inkjet printers

Afinia
BUSKRO
Colordyne Technologies
DPST & DPST Inks
iSys Label
Kirk-Rudy/Ohio Addressing
Machine
Neuralog GHS Label Printers
Ownx Technologies
Suntech & Ko
SwiftColor/Label Printers
Laser/cutting engraving systems
A&M Kinzel Siebdruckmaschinen
AB Graphic International
ALS Engineering
Cartes
Delta Industrial Services,
Demak
FlexoLaser
Max Daetwyler Corporation
Morgan Design Group
Preco
Prototype & Production Systems
Schober
Spartanics

Laser-cutting engraving systems

Manufacturing Supplies

Letterpress presses

AP Systems
Codimag
Creed Engineers
DG Press Services
FlexoExport
Graficon Maschinenbau
Grafitec Web
GSM Graphic Supplies &
Machinery
Heidelberger Druckmaschinen
Iwasaki International
Kyoto International Corporation
Label Planet
Labelform Graphics
Labelmen Machinery

Link Label Machinery
Lintec
MALBATE
MELZER
Mida Maquinaria
Nickel Printing Machinery
Orthotec
Sanki Machinery
Shanghai Taiyo Kikai
SHIKI MACHINE SUPPLY CORP.
Smooth Machinery
Webtech

Linerless and self-wound labels

acpo
AERO
AET Films/Taghleef Industries
Continental Datalabel
Frimpeks
HIP-Mitsu
Nadco Tapes & Labels
NASTar
Nordson Engineering
QSPAC Industries
Ritrama
Sekisui TA Industries
Wacker Chemie

MIS software

Cerm Management Software
Computer Productivity Services
CRC Information Systems
DELTAPAKEFI
GamSys Software
Globe-Tek Corporation
Hybrid Software
Label Traxx
Shuttleworth Business Systems
SISTRADE
theurer.com
UpSoftware Argentina
xpedx

Metalized substrates

AET Films/Taghleef Industries
Brushfoil, Division of Interfilm
Holdings
Camelot Papers
Clarifoil
Continental Datalabel
Contract Converting
Dunmore
Eckart
ExxonMobil Chemical Company
Filmquest
HUECK FOLIEN
Innovia Films
Leonardus
Magnum Magnetism Corporation
Newell Busines Services
Polinas Plastic of America
Polinas Plastik
Taghleef Industries
Treofan America
Triton International Enterprises

Multi-ply peel and reseal labels

Fix-A-Form International

Offset blankets

Central Ink Corporation
Rossini North America

Offset presses

DG Press Machines
Goss
Graficon Maschinenbau
Iwasaki International Super
Komori
Web Digital

Offset presses, machines/ equipment

AP Systems
Codimag
Continental Datalabel
DG Press Machines
Edelmann Graphics
Gallus Ferd
Grafitec Web
GSM Graphic Supplies &
Machinery
Heidelberger Druckmaschinen
Heights
Interflex Laser EngraversIwasaki
International
Kyoto International Corporation
Lintec
MALBATE
Miyakoshi Printing Machinery
MPS Systems
Muller Martini Druckmaschinen
Multitec Aids
Nickel Printing Machinery
Nilpeter
Nuova GIDUE
Omet
Orthotec
Prime UV Systems
Propyplast
R.C. Lamps
Rotatek
SHIKI MACHINE SUPPLY CORP
Smooth Machinery
Styers Equipment Company
Super Web Digital
TRESU Group
UV Ray
Valco Melton
WeiFang DongHang Precision
Machine
Zhejiang WeiGang Machinery

Plate mounting equipment

All Printing Resources
Altec Vision Equipment
Anderson & Vreeland
AV Flexologic
Bieffebi
Conversource
Correct-Touch Graphic Arts
DELTAPAK
Distribuidora Gráfica Novaro
Dixie Graphics
Glunz & Jensen Degraf Italy
J M Heaford
Print Products
Quality Discount Press Parts &
Equipment
raantec
Rogers Corporation

Sinkotech
Tectonic International
UV Graphic Technologies

Plate mounting tapes

Conversource
Correct-Touch Graphic Arts
Dantex Graphics
DELTA-PAK
Distribuidora Gráfica Novaro
Print Products
Proveedora Flexografica
Tesa Tape
UV Graphic Technologies

Plates and platemaking equipment

Agfa Graphics
All Printing Resources
Anderson & Vreeland
AV Flexologic
Bunting Magnetics
Caprock Developments
COE Carl Ostermann Erben
ContiTech Elastomer Coatings
Correct-Touch Graphic Arts
Dantex Graphics
Distribuidora Gráfica Novaro
Dixie Graphics
DuPont de Nemours
Dupont Packaging Graphics
Eastman Kodak Company
Flexo Wash
FlexoLaser
Glanz & Jensen Degraf Italy
Heights UK
Inglese
IRAC
Jet USA Corporation
JV Imaging Solutions
Kodak
Macdermid
Max Daetwyler Corporation
Pamarco Global Graphics
Pitman, Anfa Company
Platingtech Beschichtung
Proveedora Flexografica
Ruian Jingda Printing Machinery
Solutions Graphiques
Toyobo
Trinity Graphic
Troika Systems
Xante Corporation
Xeikon
xpedx

Pre-press and repro services

Anderson & Vreeland
Collomix Ruhr und Mischgerate
ContiTech Elastomer Coatings
Distribuidora Gráfica Novaro
Glanz & Jensen Degraf Italy
Hybrid Software
Inglese
Pamarco Global Graphics

Pre-press systems

Agfa Graphics
All Printing Resources
Alphasonics

Anderson & Vreeland
AV Flexologic
CGS
Correct-Touch Graphic Arts
Dalim Software
Dantex Graphics
DigiFlex
Distribuidora Gráfica Novaro
Dixie Graphics
Eastman Kodak Company
EFI
Esko
Global Vision
Glanz & Jensen Degraf Italy
GMG Americas
Hybrid Software
J M Heaford
Jet USA Corporation
Kodak
Lüscher Maschinenbau
Max Daetwyler
Perfect Proofer by Integrity Engineering
Pitman
Screen
Stork Prints
Trinity Graphic
Xante Corporation

Presses for cartons/boxes

Chesnut Engineering
DG Press Machines
Dowell Printing Equipment
Edelmann Graphics
EFI
Focus Label Machinery
Gonderflex International
GSM Graphic Supplies & Machinery
Mida Maquinaria
Miyakoshi Printing Machinery
Muller Martini Druckmaschinen
Omet
Prime UV Systems
Propheteer International
Rotatek
TRESU
Xeikon

Presses for flexible packaging

Chesnut Engineering
CSAT
DCM USIMECA
DG Press Machines
Dowell Printing Equipment
Edelmann Graphics
EFI
Etirama
Focus Label Machinery
GMG Americas
Gonderflex International
H.C. Miller Press
Hewlett Packard
Interflex Laser Engravers
J&J Converting Machinery
K2 International
KPG
m print morlock
Miyakoshi Printing Machinery
MPS Systems
Muller Martini Druckmaschinen

Nilpeter
Omet
PCMC
Prime UV Systems
Propheteer International
Rotatek
Sohn
Styers Equipment Company
Super Web Digital
Xeikon

Presses for polyamide casings

KPG

Presses for tube laminates

KPG

Pressure-sensitive films

3M Converter Markets
Accucote
ACHEM Industry America,
Achilles USA
acpo
Acucote
ARclad
Arconvert
Arjobex/Polyart
Avery Dennison
AzCoat
BELLA KAGIT
Brushfoil
Celeskit
Channeled Resources Group
Clarifoil
Colacril Self-Adhesive Materials
Collano Adhesives/nolax
Continental Datalabel
COSMO FILMS
CSAT
D&K Coating Technologies
Diavy ExxonMobil Chemical
Durico C&T
FLEXcon Company
Franklin Adhesives & Polymers
Frimpeks
Garware Polyester
Gasconne Laminates
Green Bay Packaging
Herma
Icap-Sira Chemicals And Polymers
Innovia Films
Intercoat
Italnastrì
Kanzaki Specialty Papers
King Label Adhesive Products
KK Enterprise
Klockner Pentaplast
Koan Hao Enterprise
Lecco Industries
Leonardus
Lintec
Mactac
Manter
Mondi
NASTar
National Paper Company
Nordson Engineering
Polinas Plastic of America
Polinas Plastik
Polykote Corporation

Polyonics
QSPAC Industries
Rayven
Ricoh
Ritrama
RMS Packaging
Roll Cover Italiana
SAELIM
Sanyo
SAScoat Vietnam
Sekisui TA Industries
Sihl
SMI Coated Products
Solar Plus Company
Spinnaker Coating
Strata-Tac
Taghleef Industries
Technicote
Teslin Substrate
Treofan America
Triton International Enterprises
UPM Raflatac
VPF
Wausau Coated Products
Yupo Europe

Pressure-sensitive papers

Acucote
ADVENT
AERO
ARclad
Arconvert
Avery Dennison
BELLA KAGIT
Boise Paper
Cartonal Italia
Celeskit
Cham Paper Group
Channeled Resources Group
Colacril Self-Adhesive Materials
Collano Adhesives/nolax
CSAT
delfortgroup
Diavy
Franklin Adhesives & Polymers
Frimpeks
Gasconne Laminates
Green Bay Packaging
Hansol Paper
Herma
Icap-Sira Chemicals And Polymers
Italnastrì
ITASA
KK Enterprise
Lecco Industries
Mactac
Manter
Mondi Coatings & Consumer Packaging
NASTar
National Paper Company
NewPage Corporation
Polykote Corporation
Rayven,
Ricoh
Ritrama
SAELIM
SAScoat Vietnam
Shanghai Jinda Plastic
Shenzhen Moma Technology

SMI Coated Products
 Spinnaker Coating
 Stic on Papers
 Strata-Tac
 Technicote
 Thilmany Papers
 Triton International Enterprises
 UPM Raflatac
 VPF
 Wausau Coated Products
 Weldon Celloplast
 xpedx

Pressure-sensitive tapes

ACHEM Industry America
 acpo
 Acucote
 Cham Paper Group
 Collano Adhesives/nolax
 Distribuidora Gráfica Novaro
 FLEXcon Company
 Franklin Adhesives & Polymers
 Green Bay Packaging
 Icap-Sira Chemicals And
 Polymers
 Jindal Films
 KK Enterprise
 Lecco Industries
 Mactac
 Metagalaxy Industries
 Nadco Tapes & Labels
 Polykote Corporation
 QSPAC Industries
 Rogers Corporation
 Seal King
 Sekisui TA Industries
 Specialty Tapes
 Stic on Papers
 Taiwan Regional Association of
 Adhesive Tape Manufacturers
 Tesa Tape
 Wausau Coated Products
 Weldon Celloplast
 Printing and magnetic
 Best Cutting Die
 Rotary Technology International
 Sinkotech
 Wink

Process/performance additives

Bluestar Silicones
 Dow Corning Corporation
 Evonik Goldschmidt
 FLEXCLEANERS
 Omnova Solutions
 Wacker

Product ID/tracking solutions

Atlantic Zeiser
 ATT Advanced Track & Trace
 D.P.R.
 Dakota Integrated Solutions
 Dice Graphic Technologies/
 Prototype and Production
 Systems
 Eastman Kodak Company
 Euro Plus
 FLEXcon Company
 Hewlett Packard
 Holostik India
 IIMAK

ITD
 Nikka Research
 PCM Image-Tek
 Polyonics
 Prooftag
 Shanghai Fudan-Techsun New
 Technology
 Thin Films

Punching tools

Blumer Maschinenbau
 Drohmann Easycut
 Emmendinger Maschinenbau
 Holfeld Tool & Die
 Jemmco
 Lieben Dies
 Rotary Technology International
 Schober Technologies
 Schober
 Tools & Production

Recycled content papers and films

Alltrade Recycling Equipment
 Clarifoil
 Continental Datalabel
 Papertec
 Polyplex Corporation

Release papers and films

3M Converter Markets
 AERO
 Ahlstrom
 Boise Paper
 Cartonal Italia
 Cham Paper Group
 Channeled Resources Group
 Colacril Self-Adhesive Materials
 COSMO FILMS
 Crown Van Gelder
 D&K Coating Technologies
 delfortgroup
 Folien Fischer
 Garware Polyester
 Gascogne Laminates
 Granwell Products / Polyolith
 Hansol Paper
 Herma
 ITASA
 King Label Adhesive Products
 KK Enterprise
 Klockner Pentaplast
 Koan Hao Enterprise
 Kolon
 Kunshan Formula Coating
 Technology
 Lecco Industries
 Loparex
 Mactac
 Mitsubishi Polyester Film
 Molco
 Mondi Coatings & Consumer
 Packaging
 MPI Release
 Multi-Plastics
 Neenah Paper
 NewPage Corporation
 Papertec
 Polyplex Corporation
 Rayven
 Rossella

Sanyo
 SAScoat Vietnam
 Shanghai Jinda Plastic
 Siliconature Substrate JINAGXI
 SMI Coated Products
 Solar Plus Company
 Strata-Tac
 Thilmany Papers
 Univacco Technology
 Wacker Chemie
 Weldon Celloplast
 Ziegler Papier

Roll handling equipment

A&M Kinzel Siebdruckmaschinen
 AB Graphic International
 Atlas
 AzTech Converting Systems
 B. Bunch Co
 Conversource
 Core Systems International
 Double E Company
 Fife-Tidland
 FLEXOR
 Grafisk Maskinfabrik
 Maxcess International
 Mona Equipments
 Print Products
 Quality Discount Press Parts &
 Equipment
 Tilt Lock

Roll-fed carton board

Camelot Papers
 Xeikon

Roll-label and rotary die-cutting presses

A&M Kinzel Siebdruckmaschinen
 AAA Press International
 Apexrototech Industries
 AzTech Converting Systems
 Bar Graphic Machinery
 Brotech Graphics
 Converting Equipment
 Daco Solutions
 Delta Industrial Services
 DG Press Services
 Durst Image Technology
 Etirama
 FLEXOR
 GSM Graphic Supplies &
 Machinery
 J&J Converting Machinery
 Jurmet
 K2 International
 MLC Facas de Preciso
 Muller Martini Druckmaschinen
 PCM Image-Tek
 Preco
 Propheteer International
 Sam Meccanica
 Serlem
 SHIKI MACHINE SUPPLY CORP
 Sohn
 Spartans
 Super Web Digital
 Zhejiang WeiGang Machinery

Roll-label presses

A&M Kinzel Siebdruckmaschinen

Afinia
 Chesnut Engineering
 Codimag
 CSAT
 DG Press Machines
 Durst Image Technology
 FLEXOR
 iSys Label
 m print morlock
 Mark Andy
 MELZER maschinenbau
 Muller Martini Druckmaschinen
 PCM Image-Tek
 Rapid Label Systems
 Sanki Machinery
 Shanghai Taiyo Kikai
 Webtech
 Xeikon

Roll-label presses, combination

Allen Datagraph Systems
 Epson America
 Labelform Graphics
 Labelmen Machinery
 Smooth Machinery

Rollers

A&M Kinzel Siebdruckmaschinen
 ABBA Roller
 Apex Group of Companies
 Cheshire Anilox Technology
 COMPONEX
 Corona Supplies
 CTS Industries
 Double E Company
 Dover Flexo Electronics
 Harper Corporation of America
 Impreglon Cellramic
 Industrial Molded Rubber
 Products
 Jemmco
 Mid American Rubber
 PolymagTek
 REM Manufacturing
 Rossini North America
 Rotary Die Company
 Tech-Cell
 Wilson Manufacturing
 RotaryLederle Machine Company
 Rotary Technology International
 RotoTechnix
 Schober
 Sinkotech
 Universal Engraving
 Wink

Rotary

Manufacturing Supplies
 Telstar

Scanning equipment

Automatic Identification
 Systems
 Lake Image Systems
 Moist Tech
 PC Industries
 Visi-tech Systems

Screen printing machinery/units/parts

A&M Kinzel Siebdruckmaschinen
 ALS Engineering
 Berra
 Cartes
 Codimag
 DPL Industri
 Gallus
 Heidelberger Druckmaschinen
 Label Planet
 Labelmen Machinery
 Link Label Machinery
 MPS Systems
 Omet
 Orthotec
 Preco
 Prisma
 RK Siebdrucktechnik
 Sam Meccanica
 Sanki Machinery
 SHIKI MACHINE SUPPLY
 Smag Graphique
 Smooth Machinery
 Spartanic
 SGP Prints
 UV Graphic Technologies

Security inks/varnishes

Actega Wit
 Braden Sutphin Ink
 Collins Ink
 Color Resolutions International
 DNP IMS America Corporation
 Domino North America
 ECKART
 Ecology Coatings
 Encres Dubuit
 Ercon
 Euro Plus
 Flint Group Narrow Web
 IIMAK
 Jänecke+Schneemann
 Druckfarben
 Luminescence
 Mirage Inks
 Paragon Inks
 Pulse Roll Label Products
 Siegwark
 Sun Chemical
 Zeller+Gmelin

Security printing

Agfa Graphics
 ATT Advanced Track & Trace
 Axxel
 DG Press Machines
 DJM variable data printing
 DMS
 Edale
 Esterlam International
 Euro Plus
 Francis Buhler
 Hangzhou Todaytec Digital
 Hewlett Packard
 Inkstar Office Appliance Factory
 of Tianjin
 ITD
 Pantec GS Systems
 Polar Mohr
 Prooftag
 Seal King
 Shantou Yiming Holotech

Machine
 Sun Chemical
 Thin Films
 Xeikon

Security seals and labels

B-Coreorporation
 Durico C&T

Security/holographic labels and materials

Accucote
 ARclad
 ATT Advanced Track & Trace
 Breit Technologies
 Camelot Papers
 Clarifoil
 Continental Datalabel
 Diavy
 Huzhou Hengxin Trademark
 Making Bringing
 Koan Hao Enterprise,Ltd
 Prooftag
 RMS Packaging
 Teslin Substrate

Self-cling films

Fuji Copian
 King Label Adhesive Products
 Koan Hao
 Mark Products Corp
 Molco
 Ritrama

Semi-rotary presses

Codimag
 DG Press Services
 Graficon Maschinenbau
 Grafotronic
 Iwasaki International
 Mida Maquinaria
 Miyakoshi Printing Machinery
 Orthotec
 PCM Image-Tek
 Rotatek
 Smooth Machinery
 Suntech

Sheeting

A&M Kinzel Siebdruckmaschinen
 Accraply
 Ashe Converting Equipment
 B. Bunch
 Beijing Zodngoc Automatic
 Technology
 Berra
 Brotech Graphics
 Catbridge Machinery
 Daco Solutions
 DCM USIMECA
 Dienes Corporation
 Fortisblades
 Grafisk Maskinfabrik
 Jurmet
 Karlville Development
 Kugler-Womako
 Laem Systems
 LeoMat
 Nadco Tapes & Labels
 New Force Magnetics
 Nicely Machinery Development

raantec
 TGW International
 Tools & Production
 Wink

Sheeting, slitting and folding machinery

DG Press Services
 Grafotronic
 Labelmate
 Smag Graphique

Shrink films

Advanced Packaging Films
 AET Films/Taghleef Industries
 Allen Plastic Industries
 Avery Dennison
 Bonset America Corporation
 ExxonMobil Chemical
 Garware Polyester
 Jindal Films
 Klockner Pentaplast
 Kolon
 Newell Busines Services
 Plastic Suppliers
 RMS Packaging
 Sekisui TA Industries
 Sidaplast
 Triton International Enterprises

Silicone release coatings

ACHEM
 Applied Rigaku Technologies
 Ashland
 Bluestar Silicones
 Channeled Resources Group
 Dow Corning
 Ecology Coatings
 Evonik Goldschmidt
 Flint Group Narrow Web
 ITASA
 KCC Silicones
 Kolon
 Kroenert
 Kunshan Formula Coating
 Technology
 Loparex
 Metagalaxy Industries
 Minus Nine
 Momentive Performance
 Materials
 Omnova Solutions
 Paragon Inks
 Polinas Plastik
 Rayven
 Rossella.
 Siliconature Substrate
 Squid Inks
 Stic on Papers
 Wacker

Sleeve systems

Allen Plastic Industries
 AV Flexologic
 COE Carl Ostermann Erben
 DELTAPAK
 Dixie Graphics
 Eastman Kodak Company
 Flexolaser
 Goss
 Harper Graphics

J M Heaford
 Karlville Development
 Rossini North America
 SGP Prints

Slitting and folding machinery

A&M Kinzel Siebdruckmaschinen
 Accraply
 Ashe Converting Equipment
 Atlas
 B. Bunch
 Beijing Zodngoc Automatic
 Technology
 Berra
 Brotech Graphics
 Catbridge Machinery
 Daco Solutions
 DCM USIMECA
 Dienes Corporation
 Fortisblades
 Grafisk Maskinfabrik
 Jurmet
 Karlville Development
 Kugler-Womako
 Laem Systems
 LeoMat
 Nicely Machinery Development
 raantec
 TGW International
 Tools & Production
 Wink

Slitters and rewinders

A&M Kinzel Siebdruckmaschinen
 AB Graphic International
 Accraply
 Apexrototech Industries
 Ashe Converting Equipment
 Atlas
 B. Bunch
 Beijing Zodngoc Automatic
 Technology
 Brotech Graphics
 Catbridge Machinery
 Conversource
 Converting Equipment
 CTC International
 D.P.R.
 Davis-Standard
 ERREPI
 FLEXOR
 Fortisblades
 Grafisk Maskinfabrik
 Grafotronic
 H.C. Miller Press
 Hunkeler
 Jurmet
 Kroenert
 KTI-Keene Technology
 Labelmate
 Labeltechs di Gabriele D'Onofrio
 Laem Systems
 Martin Automatic
 Mona Equipments
 Nicely Machinery Development
 Pinewood Label Systems
 Prati
 Quality Discount Press Parts &
 Equipment
 raantec
 ROTOCONTROL

Rotoflex
Serame
Smag Graphique
Soma Engineering
Tools & Production
UV Graphic Technologies
Web Techniques

Specialty coating/converting

A&M Kinzel Siebdruckmaschinen
Accucote
ACHEM Industry America
acpo
ACTEGA Terra
Ashland
AzCoat
BELLA KAGIT
Breit Technologies
Color Resolutions International
Davis-Standard
Durico C&T
Ecology Coatings
Edale
Ercon
ETI Converting Equipment
Filmquest
FLEXcon Company
Folien Fischer
Fuji Copian
Gascogne Laminates
Henkel
Heraeus Noblelight
HUECK FOLIEN
Huzhou Kingdom Coating Industry
Intercoat
ITASA
ITW Dynatec
KANZAN Spezialpapiere
King Label Adhesive Products
Loparex
Mactac
Matthias Paper Corporation
Minus Nine
Mondi Coatings
MPI Release
Multi-Plastics
MultiSTiQ International Coating
NAStar Papertec
Polykote Corporation
Polyonics
Ritrama
RK Print Coat Instruments
Roll Cover Italiana
Siliconature Substrate JINAGXI
Squid Inks
Strata-Tac
Sun Chemical
TRESU Group
Tullis Russell Coaters
VPF
Wausau Coated Products
XDS

Splicing equipment

A&M Kinzel Siebdruckmaschinen
Beijing Zongoc Automatic Technology
CTC International
Dover Flexo Electronics
Kirk-Rudy/Ohio Addressing

Machine
KTI-Keene Technology
Martin Automatic
TGW International
Tri-Tronics Company

Static elimination systems

ACE di Barbui Davide & Figli
Advanced Machinery
Air and Water Systems
Airtrim
DELTAPAK
Doyle Systems
DRAABE Humidification
Fraser Anti Static Techniques
KERSTEN Elektrostatik
Meech International
Meech Static Eliminators
PolymagTek
Precision AirConvey Corp
Sanyo Corporation of America
SDI
Simco-Ion/Teknek
StopStatic.com
Teknek

Stretch films

Newell Busines Services
QSPAC Industries

Synthetic face materials

3M Converter Markets
AET Films/Taghleef Industries
Appleton
Arconvert
Arjobex/Polyart
Comercial Arquè
Contract Converting
COSMO FILMS
Dunmore
ExxonMobil Chemical Company
Granwell Products / Polyolith
Hanita Coatings
Hop Industries
Innovia Films
Jindal Films
Kanzaki Specialty Papers
Manter
Mark Products
Matthias Paper
MDV
Multi-Plastics
Polyplex
Ricoh
RMS Packaging
Sidaplast
Sihl
Sinnaker Coating
Tech Folien
Triton International Enterprises
Valéron Strength Films
Yupo Corporation

Systems integrators

A&M Kinzel Siebdruckmaschinen
B-Coreorporation
Color Management Group
Domino North America
Drilling Tech Services/POPPS
GIC-Omegher
GRAPHI MECC GROUP

HIP-Mitsu
Longford
LTHD
m print morlock
Nordson Engineering
RK Siebdrucktechnik
Shanghai Fudan-Techsun New Technology
SISTRADE

Tag materials

Appleton
Arjobex/Polyart
AzCoat
Camelot Papers
Continental Datalabel
Contract Converting
Crown Van Gelder
Durico C&T
FLEXcon Company
Granwell Products / Polyolith
Hop Industries
Huzhou Hengxin Trademark Making Bringing
Jujo Thermal
Kanzaki Specialty Papers
KANZAN Spezialpapiere
Klockner Pentaplast
Mark Products
Matthias Paper Corporation
MDV
Multi-Plastics
National Paper Company
NewPage Corporation
Papertec
Plastic Suppliers
Ricoh
Shenzhen Moma Technology
Sidaplast
Sihl
Tech Folien
Valéron Strength Films
Yupo

Tamper proof labels/laminates

ACHEM Industry America,
Allen Plastic Industries
API Foils
ATT Advanced Track & Trace
Celeskit / Oracle Paper Group
Clarifoil
Continental Datalabel
Dunmore
Fuji Copian
Henan Wellking Technologies Development
Hologram Manufacturers Association of India
Holostik India
HUECK FOLIEN
Intercoat
Italnastri
K Laser Technology
Leonardus
Prooftag
Seal King
Shanghai Fudan-Techsun New Technology
Sidaplast
SMI Coated Products
Technicote

Tesa Tape
Thin Films
Tri-Tronics Company
Weldon Celloplast
Yupo

Test and inspection equipment

A&M Kinzel Siebdruckmaschinen
Applied Rigaku Technologies
Automatic Identification Systems
Axicon Auto ID
Electromatic Equipment
Fox Valley Technical College
Grafotronic
Imass
Jemmco
Moist Tech
Mühlbauer
StopStatic.com division of Alpha Innovation
Thwing Albert Instrument Company
Unilux

Thermal

ADVENT
Afinia
Appvion
CleanTech Cleaning Cards
Diversified Labeling Solutions
Durico C&T
Neuralog GHS Label Printers
Ownx Technologies
QSPAC Industries
Screen
Signet Marking Devices
Thermal Printer Support

Thermal paper labelstocks

3M Converter Markets
AERO
Appleton
Appvion
ARclad
Arconvert
BELLA KAGIT
Celeskit / Oracle Paper Group
Cham Paper Group
Channeled Resources Group
Continental Datalabel
Contract Converting
Frimpeks
Gulton
Hansol Paper
Herma
Jujo Thermal
Kanzaki Specialty Papers
KANZAN Spezialpapiere
Lecco Industries
Mactac
Manter
Mark Products
Matthias Paper
NAStar
National Paper Company
NewPage Corporation
Ricoh
Ritrama
SAELIM
SAScoat Vietnam

Shenzhen Moma Technology
Sihl
SMI Coated Products
Stic on Papers
Technicote
TODAYTEC
UPM Raflatac

Thermal transfer ribbons

ADVENT
AEBO Science Technology
API Foils
Armor
Calor
CleanTech Cleaning Cards
Comercial Arquè
Continental Datalabel
DaLian Fujisan Office Equipment
Diversified Labeling Solutions
DNP IMS
Dynic UK
Etilux
Fuji Copian
General
Gulton
Hangzhou Todaytec Digital
IIMAK
Inkstar Office Appliance Factory of Tianjin
ITD
ITW Foils
ITW Thermal Films
Jiaozuo Zhuorim Digital Material
Lemmaco
Leviteks
m print morlock
Mastercorp Group
Pack Vision
Ricoh
RTT Regma Transfert Thermique
Signet Marking Devices
Spandex Group
Stic on Papers
Thermal Printer Support
Transfer Trade
TTR Euroworks
Union Chemicar Europe
Yupo
Zhejiang Hengfeng Packing

Thermal, laser and inkjet printers

A&M Kinzel Siebdruckmaschinen
ADVENT
Atlantic Zeiser
Automatic Identification Systems
cab Karlsruhe
CleanTech Cleaning Cards
D.P.R.
Dice Graphic Technologies/Prototype and
Production Systems
DJM variable data printing
Domino North America
Epson America
Fuji Copian
General SRL
Gulton
KG Digital Solutions
m print morlock
Mastercorp Group
MCS
Mimaki Europe
Roland DG Benelux

Roland DGA Corporation
Screen
Spandex Group
Tharo Systems
Thermal Printer Support

Thermochromic and photochromic inks and labels

Central Ink
NuCoat
Sun Chemical

Time/temperature indicator labels

Color Resolutions International
Thin Films

Trade press

Yeuell Nameplate & Label

Trade associations

AIMCAL
FINAT
Flexographic Technical Association (FTA)/
FLEXO Magazine
Hologram Manufacturers Association of
India
Tag & Label Manufacturers Institute
Taiwan Regional Association of Adhesive
Tape Manufacturers

Training

AIMCAL
All Printing Resources
Allison Systems
Apex
API Foils
Bosch Rexroth
ChemInstruments
Chemsultants
COE Carl Ostermann Erben
Color Management Group
Computer Productivity Services
Distribuidora Gráfica Novaro
Drilling Tech Services/POPPS
Electro Optic Werkzeugtechnik
Esterlam
FINAT
Flexographic Technical Association (FTA)/
FLEXO Magazine
Fox Valley Technical College
Fujifilm
Gallus
Harper Graphics
Highlight UV-Technology
IGT Testing Systems
Jet USA Corporation
K Laser Technology
Paragon Inks
Pitman
Polar Mohr
ProjetoPack & Associados
REA Elektronik
Siegwerk
SISTRADÉ
Sun Chemical
Wacker Chemical Corporation
Zeller+Gmelin

UV flexo presses

AccuWeb

Apexrototech Industries
Edelmann Graphics
Edwards Label
ETI Converting Equipment
Etirama
FlexoExport
Focus Label Machinery
Gallus
Graficon Maschinenbau
GSM Graphic Supplies & Machinery
Heidelberger Druckmaschinen
Highlight UV-Technology
IST Metz
Iwasaki International
K2 International
KPG
Label Planet
Labelform Graphics
Mark Andy
MPS Systems
Nilpeter
PCMC
Prime UV Systems
Propheteer International
Propyplast
R.C. Lamps
Rotary Die Company
Sanki Machinery
SHIKI MACHINE SUPPLY CORP.
UV Ray
Zhejiang WeiGang Machinery

UV lamps and curing systems

A&M Kinzel Siebdruckmaschinen
AAA Press
Al's Co UV
American Ultraviolet
Brewer UV Systems
BUSKRO
Caprock Developments DELTAPAK
Distribuidora Gráfica Novaro
DPL Industri,
Durst Image Technology
GEW
Gold Fai Printing Machines Zhaoqing
Heraeus Noblelight
Highlight UV-Technology
Honle UV America
Integration Technology
IST Metz
Jelight Company
Kirk-Rudy/Ohio Addressing Machine
Kühnast Strahlungstechnik
Lamp Tech
Mark Andy
Noritsu America Corporation
Phidastien
Prime UV Systems,
Print Products
PrintConcept UV-Systeme
Quartz Lamps
R.C. Lamps
Rotary Die Company
XDS
Ultralight
UV Graphic Technologies
UV Ray
UV-Technik Meyer
Uviterno

Used and rebuilt presses

A&M Kinzel Siebdruckmaschinen
 AAA Press International
 DG Press Machines
 Drilling Tech Services/POPPS
 FlexoExport
 Gonderflex
 Graficon Maschinenbau
 Grafitec Web
 H.C. Miller Press
 J&J Converting Machinery
 KPG
 Labelform Graphics
 Quality Discount Press Parts & Equipment
 Styers Equipment Company
 Webtech
 XDS

VIP materials

Aero
 Arjobex/Polyart
 Armor
 Colacril Self-Adhesive Materials
 Continental Datalabel
 Ercon
 Hanita Coatings
 Innovia Films
 Jindal Films
 Kanzaki Specialty Papers
 KANZAN Spezialpapiere
 Lintec
 Mactac
 MDV
 Nastrificio di Cassano
 NuCoat
 Polyonics
 RK Siebdrucktechnik
 RMS Packaging - Aurora Special Effect Film
 Roll Cover Italiana
 SAELIM
 SAScoat Vietnam
 Sekisui TA Industries
 Shanghai Jinda Plastic
 Sihl
 Spinnaker Coating
 Tech Folien
 UPM Raflatac
 Wausau Coated Products,
 Zhejiang Hengfeng Packing

Video inspection systems

AB Graphic International
 Advanced Vision Technology
 Altec Vision Equipment
 Applied Rigaku Technologies,
 BST Pro Mark
 CC1,
 Conversource DELTAPAK
 Drello &
 eltromat
 Erhardt + Leimer
 EyeC
 Fag Graphic Systems
 Fife-Tidland
 Freschi Italia
 ISRA SURFACE VISION
 Label Vision Systems
 Lake Image Systems
 Maxcess International
 Nikka Research
 PC Industries
 Perfecto Web-Control

Printech Machinery Trading Canada
 Re. Spa Controlli Industriali
 REA Elektronik
 Rheintacho Messtechnik
 Rotary Die Company
 Ryeco
 Tectonic International
 Visi-tech Systems

Viscosity controls

AV Flexologic
 DELTAPAK
 Flexomaid
 FLXON
 Graymills Corporation

Waste and trim removal/disposal

Airtrim
 CTC International
 Dienes Corporation
 Fives North American
 Flexomaid
 IRAC
 Kongskilde Industries
 KTI-Keene Technology
 Lundberg Tech
 Martin Automatic
 Matho
 Precision AirConvey Corp
 Trim Waste Management

Web and sheet management equipment

ACE di Barbui Davide & Figli
 Andantex
 Fife-Tidland
 FMS Force Measuring Systems
 MEROBEL
 NDC Infrared Engineering
 Solutions Graphiques

Web cleaning systems

A&M Kinzel Siebdruckmaschinen
 ACE di Barbui Davide & Figli
 Advanced Machinery
 Conversource
 Doyle Systems
 Erhardt + Leimer
 Flexo Wash
 IRAC
 Jemmc
 Meech
 PolymagTek
 SDI
 Simco-Ion/Teknek
 Solutions Graphiques
 StopStatic.com
 Teknek

Web guiding and tension

Accraply
 AccuWeb
 Advanced Machinery
 Altec Vision Equipment
 Andantex
 BST Pro Mark
 CTC International
 Double E Company
 Dover Flexo Electronics
 Erhardt + Leimer
 Fife-Tidland

Fives North American
 FMS Force Measuring Systems
 Innolutions
 Kroenert
 KTI-Keene Technology
 Mach III Clutch
 Martin Automatic
 Maxcess International
 MEROBEL
 Perfecto Web-Control
 Re. Spa Controlli Industriali

Web inspection and control

Accraply
 Advanced Machinery
 Advanced Vision Technology
 Altec Vision Equipment
 Apexrototech Industries
 Applied Rigaku Technologies BST Pro Mark
 CC1
 Converttec Graphic Technics
 Converting Equipment
 Double E Company
 Electromatic Equipment
 eltromat
 Erhardt + Leimer
 Fife-Tidland
 FMS Force Measuring Systems
 Grafotronic
 GRAPHI MECC GROUP
 Innolutions
 ISRA SURFACE VISION
 Labeltechs di Gabriele D'Onofrio
 Laem Systems
 Mach III Clutch
 Maxcess International
 Mühlbauer
 NDC Infrared Engineering
 Nikka Research
 PC Industries
 Re. Spa Controlli Industriali
 Ryeco
 Tectonic International
 Unilux
 Visi-tech Systems
 Web Techniques

Web marking systems

A&M Kinzel Siebdruckmaschinen
 Erhardt + Leimer
 Provident Group
 Ryeco

Web transport/converting bases

A&M Kinzel Siebdruckmaschinen
 Grafotronic
 Mühlbauer
 Telstar

Supplier directory

3

3ES Mega Elektromekanik

W: <http://en.3esmega.com/>

3DT LLC

W: <http://www.3dtllc.com>

3M Converter Markets

W: <http://www.3m.com/converter>

Aa

A&M Kinzel Siebdruckmaschinen

W: <http://www.kinzel-am.com>

AAA Press International, Inc.

W: <http://www.aapress.com>



AB Graphic International Inc

Lancaster Road, Carnaby Industrial Estate, Bridlington
East Yorkshire, England
YO15 3QY

T: 0044 (0)1262 671138

F: 0044 (0)1262 606359

E: hellent@abgint.com

W: <http://www.abgint.com>

AB Graphic International's range of label converting machinery and technical support are the prime reasons for our continuing success. Our machines are designed to meet end user demands for multiple converting options, including those addressing pharmaceutical and environmental issues. Our innovative range includes fully modular digital converting lines, visual inspection, turret rewinding, and encompasses the Omega Digicon range for digitally printed webs, Sabre Extreme Laser Die Cutter, RFID insertion, 100% vision inspection, pharmaceutical rewinders, sheeters, stringing machines, and Braille solutions.

ABBA Roller

W: <http://www.abbarubber.com>

Accraply

W: <http://www.accraply.com>

AccuWeb, Inc.

W: <http://www.accuweb.com>

ACE di Barbui Davide & Figli S.r.l

W: <http://www.ace-electrostatic.it>

ACHEM Industry America, Inc.

W: <http://www.achem-usa.com>

Achilles USA

W: <http://www.achillesusa.com>

acpo ltd

W: <http://www.acpo.com>

Actega Terra GmbH

W: <http://www.actega.com/terra>

Actega Wit, Inc

W: <http://www.actega.com>



Acucote, Inc.

PO Box 538 Graham, NC 27253+

T: +1 800 228 2683

E: sales@acucote.com

W: <http://www.acucote.com>

Acucote Inc. manufactures quality, pressure-sensitive products. Headquartered in Graham, NC, Acucote provides stock inventory programs and custom capabilities that offer a diverse selection of adhesives, facestocks and silicone release systems. Acucote provides pattern coating; toll coating and slitting; multi-ply constructions; permanent laminations; transfer tapes for integrated forms and pressure-sensitive applications; coupon solutions; silicone coatings; roll to sheet; sheeted products and narrow web laminations. With distribution centers in North Carolina, Pennsylvania, Ohio, Texas and California, Acucote works with its customers to achieve solutions to the most difficult labeling challenges.

Adare Advantage

W: <http://www.adareadvantage.com>

Advanced Machinery NV

W: <http://www.advancedmachinery.be>

Advanced Packaging Films GmbH

Dow Value Park, Gebaude E45, Schkopau, Sachsen-

Anhalt, D-06258, Germany

T: +49 3461 547-0

F: +49 3461 547 100

E: h.wienkenhoever@apfilms.de

W: <http://www.apfilms.de>

Advanced Polymers Int'l

W: www.geltac.com

Advanced Vision Technology (AVT)

W: <http://www.avt-inc.com>

Advent

W: <http://www.adventribbons.com>

AEBO Science Technology Co Ltd

W: <http://www.chinaaebo.com>

Aero. d.d.

W: <http://www.aero.si>

Afinia

W: <http://www.afinia.com>

Agfa Graphics N.V.

W: <http://graphics.agfa.com>

AIMCAL

W: <http://www.aimcal.org>

Air and Water Systems, Inc.

W: <http://www.airandwatersystems.com>

Airtrim, Inc.

W: <http://www.airtrim.com>

AKS Gruppen

W: <http://www.aks.dk>

Alden & Ott Printing Inks

2050 S Carboy Road, Mount Prospect, IL, 60056,
United States

T: +1 847 956 6830

F: +1 847 956 6509

E: angelo@aldenottink.com

W: <http://www.aldenottink.com>

Family owned and operated since 1957 with the same attitude towards quality and service continues today. The Flexo Division was started in

PRECISION PRODUCTION TECHNOLOGY MEETS HIGH QUALITY FLEXIBLE DIES



GVM engraving machines, for CNC sharpened flexible dies features the rotary and flatbed cutting demands by fulfilling the highest requirements.

DieJet, the DTP direct to plate solution for technological printing demands considers state of the art production needs for precision and efficiency.

Made in Germany - manufactured with excellent care.

sales@andersoneurope.com
www.andersoneurope.com


ANDERSON EUROPE

you to become and continue to be a part of our family.

Alpha-Cure
W: www.alpha-cure.com

All Printing Resources
W: <http://www.teamflexo.com>

Allen Datagraph Systems, Inc.
56 Kendall Pond Rd, Derry, NH, 03038, United States
T: +1 603 216 6344
F: +1 603 216 6345
E: info@allendatagraph.com
W: <http://www.itechlabel.com/>

Allen Datagraph Systems, Inc. manufactures the iTech Axis and Centra HS Digital Label Systems; complete label production solutions that enable you to print and finish labels digitally. The printers have a wide range of substrate flexibility, high productivity, variable data capability and low operational costs. Combined with the finisher that laminates, digital die-cuts without dies any shape, strips, slits and re-winds to finished rolls of labels, converters have a choice of complete digital label solutions based on their production needs.

Allen Plastic Industries Co Ltd
W: <http://www.allenpack.com>

Allison Systems Corporation
W: <http://www.allisonblades.com>

Alltrade Recycling Equipment
W: <http://www.alltraderecycling.com>

ALPHASONICS

ULTRASONIC CLEANING SYSTEMS

Alphasonics
18 Caddick Road, Knowsley Business Park South, Knowsley, Merseyside, L34 9HP, United Kingdom
T: +44 151 547 3777
F: +44 151 547 1333
E: alphasonics@alphasonics.co.uk
W: <http://www.alphasonics.co.uk>

Alphasonics develops and manufactures Alphasound ultrasonic equipment. Products include specialized anilox roll cleaning systems including dual frequency, variable power technology with Megan, Melissa, Miranda and Mia models offering a range of options to the discerning printer. Alphasonics also manufactures a wide range of other machinery including Alphasound parts washing systems. New this year is a range of mobile wash-up and flocculation stations for trays and parts.

Al's Co UV, Inc
W: <http://www.alscouv.com>

ALS Engineering GmbH
W: <http://www.als-engineering.de>

Altec Vision Equipment
5030 Champion Blvd, G11-112, Boca Raton, FL, 33496, United States
T: +1 561 988 9385
F: +1 561 423 9278
E: altec@altecvision.com
W: <http://www.altecvision.com>

Altec Vision Equipment offers automation, inspection, process control and vision inspection systems for industrial processes.

Altech Srl
W: <http://www.altech.it>

American Ultraviolet
W: <http://www.americanultraviolet.com>

American Water Graphics, Inc.
W: <http://www.awg-ink.com>

Andantex USA Inc
W: <http://www.andantex.com>

Anderson & Vreeland, Inc.
W: <http://www.andersonvreeland.com>

AP Systems AG
W: <http://www.apsystems.ch>

Apex Group of Companies
W: <http://www.apex-groupofcompanies.com>

Apex North America
W: <http://www.apexnorthamerica.com>

Apexrototech Industries
W: <http://www.apexrototechinds.com>

API Group Plc
W: <http://www.apigroup.com>

Apple Die
W: <http://www.appliedie.com>

Appleton
W: <http://www.appletonideas.com/label>

Applied Rigaku Technologies, Inc.
W: www.rigakuedxrf.com

Appvion, Inc.
W: www.appvion.com

ARclad S.A.
W: <http://www.arclad.com>

Arconvert S.p.A
W: <http://www.arconvert.com>

Arets Graphics N.V.
W: <http://www.aretsg.com>

Arjobex/Polyart
W: <http://www.polyart.com>

ARMOR
MAKING THERMAL TRANSFER EASIER

Armor
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W: <http://www.armor-tt.com>

Armor is an international group whose ICP division designs and manufactures inked films used in thermal transfer technology, with production sites in France, the USA, Brazil, Singapore and China. Since its founding in 1922, Armor has been a pioneer in its principle area of business: printing inks. Armor was one of the first companies to manufacture carbon film, then to launch ribbon cassettes for typewriters and subsequently printers, and finally to introduce thermal transfer technology into Europe in the early 1980s. Since then, Armor has rapidly become a major supplier to the auto-ID and tag and label industries worldwide. Providing a comprehensive range of thermal transfer ribbons constantly updated to match your current and future automatic identification applications, meeting and often exceeding market expectations. Driven by a strong commitment in sustainable development, Armor is the only TTR manufacturer in the world to produce a ribbon 100 percent coated without using solvents, AWR 470 SolFree. Armor has ISO 9001, ISO 14001 and OHSAS 18001 certifications.

Ashe Converting Equipment
W: <http://www.ashe.co.uk>

ASHLAND

Ashland Inc.
Ashland Performance Materials, Carretera Reial 137-139, Sant Just Desvern, Barcelona, 08960, Spain
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F: +44 1562 740 785
E: PMsaleseurope@ashland.com
W: <http://www.ashland.com>

Ashland Inc., a diversified, global chemical company, provides innovative technologies for surface and bonding enhancement for the packaging and converting industries. Ashland's extensive product line of pressure sensitive, flexible packaging and laminating adhesives, along with heat seals, synthetic and natural rubber cold seals, and UV/EB and water base overprint and specialty coatings are formulated with the right balance of performance and applied costs. By defining innovation in the global marketplace, Ashland has you covered above, between and below the substrate.

Atlantic Zeiser
W: <http://www.atlanticzeiser.com>

ATLAS

Atlas
Wolseley Road, Kempston, Bedford MK42 7XT, T: +44 1234 852553
F: +44 1234 851151
E: sales.atlas@atlasconverting.com
W: www.atlasconverting.com

ATLAS provides advanced slitter rewinder technology

for high volume production of labelstock, including paper/paper, paper/film and film/film combinations at 2 metres in width. The Atlas OCS-2 is a shafted, centre-surface slitter rewinder and is the most successful model, designed and developed specifically for the labelstock industry. The Atlas Universal LS machine is also a centre-surface slitter but with individual rewind arms and linear tracking on rewind beams. It includes unique Atlas technology for rewinding filmic/synthetic materials as low as 60 micron, at speeds up to 750m/min (2460ft/min) with rewind diameters up to 1250mm (49 in). Both models have automation systems to reduce machine downtime for changeovers. Bespoke systems are available on request.

Atlas Die

W: <http://www.atlasrotary.com>



ATT Advanced Track & Trace

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F: +33 1 47 51 47 72
E: info@att-fr.com
W: <http://www.att-fr.com>

Advanced Track & Trace is a global leader and technology provider in brand protection, secured traceability and authentication. Awarded Technology Pioneer by the World Economic Forum, ATT provides custom-tailored, field-proven multi-level security solutions to fight efficiently and durably against parallel markets and counterfeiting. ATT has developed its own technology: Seal Vector, a highly secured digital data container. Our know-how in implementation of unitary traceability on production and assembly lines has made us a key expert, partner of the largest companies worldwide.

Automatic Identification Systems UK Ltd

W: <http://www.aisukltd.com>

AV Flexologic b.v.

W: <http://www.flexologic.nl>



Inspired Brands.
Intelligent World.™

Avery Dennison - Label and Packaging Materials

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F: +1 440 534 4712
W: <http://www.na.fasson.com>

Avery Dennison (NYSE:AVY) helps make brands more inspiring and the world more intelligent. For more than 75 years the company has been a global leader in pressure-sensitive technology and materials, retail branding and information solutions, and organization and identification products for offices and consumers. A Fortune 500 company with sales of \$6.5 billion in 2010, Avery Dennison is based in Pasadena, California and has employees in over 60 countries.

Brand extensions, SKU proliferation and packaging redesigns drive brand owners to refine and redefine their packaging and their brands. Our wide variety of Fasson pressure-sensitive films, papers and specialized labeling materials accommodate the most innovative packaging ideas with substrates that include clear-on-clear films for a no-label look; glossy and matte white papers for highly visual graphics; digitally top-coated papers and films for short-run and complex designs; conformable film products to support unique container shapes and product function.

Axicon Auto ID LLC

W: <http://www.axicon.com>

Axxel Sp. z o.o

W: <http://www.labels3d.com>

AzCoat, Inc.

W: <http://www.azcoat.com>

AzTech Converting Systems

W: <http://www.aztechconverting.com>



B. Bunch Co Inc

W: <http://www.bbunch.com>

Bar Graphic Machinery Ltd

W: <http://www.bargraphic.com>

B-Core Incorporation

W: <http://www.colorbit.jp/en/>

Beijing Zongnoc Automatic Technology

W: <http://www.zongnoc.com>

Bella Kagit

W: <http://www.bellakagit.com>



Berkeley Machinery

Paladin House, Botsom Lane, West Kingsdown, Kent, TN15 6BL, United Kingdom
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F: +44 (0) 1474 850 859
E: info@berkeley-machinery.co.uk
W: <http://www.berkeley-machinery.co.uk>

Berkeley Machinery manufactures a wide range of printing and converting machinery for the label and packaging industry. We have one of the widest product ranges in the World today, which includes flexo, offset and packaging presses as well as high speed sleeving, cutting and inspection machines, slitter rewinders, die cutting machines, plate mounters, anilox cleaners and much more. Our products are marketed worldwide and we offer confidential OEM production of machinery to third parties. Please visit our website.

BERHALTER® DIE - CUTTING

Berhalter

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F: +41-71-727 02 01
W: www.berhalter.com

Berhalter is known worldwide for flexible, efficient and innovative die-cutting solutions. More than 50 years of experience and continuous quality development have allowed us to grow into a dynamic company in the packaging materials industry.

As the leading manufacturer of high-performance roll-fed flat-bed die-cutting systems with our own tool-making shop, we are a reliable partner for our customers in terms of the complete die-cutting process. Berhalter die-cutting machines with the seal of quality - made in Switzerland - guarantee the highest level of efficiency and productivity.

Berhalter high-performance die-cutting systems are tuned precisely to the production needs of our customers. Nevertheless, our flexible modular construction system allows for individual adjustments to existing or new production concepts at any time. Using the Berhalter punching system, it is possible to realise every marketing and customer solution without having to impose restrictions in terms of the choice and design of the packaging materials.

Berra s.r.l

W: <http://www.berra.com>

Best Cutting Die

W: <http://www.bestcuttingdie.com>

Beta Industries - The Quality Control Company

W: <http://www.betascreen.com>

Bieffebi S.p.A

W: <http://www.bieffebi.it>

bielomatik Leuze GmbH + Co. KG

W: <http://www.bielomatik.com>

Bluestar Silicones France SAS

W: <http://www.bluestarsilicones.com>

Bluestar Silicones North America

Two Tower Center Blvd, Suite 1601, East Brunswick, NJ, 08816, United States
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F: +1 732 626 8400
E: info@bluestarsilicones.com
W: <http://www.bluestarsilicones.com>

Bluestar offers a full range of silicone technologies for the label converting industry. Our Silcolease brand of release coatings includes: solventless thermal, emulsion, solventless UV (cationic and free radical), and solvent technologies. New innovations include our Optima II low platinum and high speed solventless thermal systems and a monocomponent UV acrylate system.

Blumer Maschinenbau AG

W: <http://www.blumerag.com>

Boise PaperW: <http://www.boiseinc.com>**Bonset America Corporation**W: <http://www.bonset.com>**Bosch Rexroth AG**W: <http://www.boschrexroth.com>**Bostik, Inc.**W: <http://www.bostik-us.com>**Braden Sutphin Ink**W: <http://www.bsink.com>**Braga Comercio Industria Ltda.**W: <http://www.braga.com.br>**Breit Technologies LLC**W: <http://www.breit-tech.com>**Brewer UV Systems**W: <http://www.breweruv.com>

Brotech

Brotech Graphics Co., Ltd1st Floor, A6 Building, Fuzhong Industrial Park,
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518103, China

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F: +86 755 8373 3897

E: rl@bro-tech.netW: <http://www.bro-tech.net>

Brotech Graphics Co., Ltd was established in 2004 as a supplier of label and packaging printing solutions. It is dedicated to offering the world advanced presses, high quality inspection systems, spare parts and consumables. Its high quality inspection systems and converting solutions for labels and packaging meet the actual requirements of the user.

Brushfoil, Division of Interfilm Holdings, Inc.

1 Shoreline Drive, Unit 6, Guilford, CT, 06437, United States

T: +1 203 453 7403

F: +1 203 453 7408

E: brushfoil@earthlink.netW: <http://www.brushfoil.com>

Brushfoil, LLC is a leader in pioneering graphic brushed label facestocks and laminating films for use in the manufacturing and converting industries. Founded in 1982 to advance the development of brushed films as an alternative to stainless steel, Brushfoil continues to aggressively embrace the newest technology to produce metallic-looking films for a wide range of applications, including high-end packaging, appliances, labels, decorative items and much more.

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33739 Bielefeld

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E: marketing@bst-international.comW: www.bst-international.com**Bunting Magnetics Co.**W: <http://www.buntingmagnetics.com>**BUSKRO USA Ltd**W: <http://www.buskro.com>**Buycores.com by The Newark Group**W: <http://www.buycores.com>**cab Karlsruhe GmbH & Co KG**W: <http://www.cab.de>**Calor GmbH**Arnold-Sommerfeld-Ring 13, 52499 Baesweiler,, ,
Germany

T: +49 2401 9179 0

F: +49 2401 9179 11

E: info@calor.deW: <http://www.calor.de>

Calor and Regma are experts in thermal transfer ribbons and operate two manufacturing plants in Europe. Regma in Normandy, France, has been developing and coating thermal transfer ribbons since 1986, while both factories use state-of-the-art equipment for converting ribbons to standard sizes or customized OEM specifications. We supply thermal transfer ribbons in three product lines: 'compact', our standard range; 'made to measure', our flexible roll production; and 'special', our qualities for non-standard applications. Our customers can choose from 35 black and 85 colored qualities. Short delivery times, individual advice based on your requirements and personal customer care are all of great importance to us.

Camelot Papers IncW: <http://www.camelotpaper.com>**Caprock Developments Inc.**W: <http://www.caprockdev.com>**Cartes S.r.l.**

2, via Michelangelo, Moglia, Mantova, 46024, Italy

T: +39 0376 511 511

F: +39 0376 557 755

E: info@cartes.itW: <http://www.cartes.it>

Since 1970 CARTES has been producing labels machines, engineered with customers' needs and expectations in mind. CARTES has affirmed its success in 88 countries where more than 4,000 machines are installed and recognized for their quality, mechanical strength, precision and high production speed. CARTES offers the widest range of label machines with hot stamping, silk-screen printing, flexo printing / varnishing, flat die-cutting, semi-rotary die-cutting, embossing units and with the exclusive "semi-sealed" LASER technology for die cutting and converting. CARTES first has developed and commercialized the LASER technology applied to self-adhesive label die-cutting and we continue to bring product innovation in our market. Today, after 14 years, and over 200 LASER machines installed in 42 different Countries, the CARTES LASER technology represents a confirmed success worldwide, not only for the level achieved, but also because the Laser converting unit can be combined with hot stamping, silk-screen printing, flexo varnishing, flat die-cutting, semi-rotary die-cutting and embossing. The combined machines are very appreciated by the label producers as they can fulfill different applications in a single production cycle, creating labels of the highest value. To learn more about CARTES, visit our webpage.

Cartonal Italia SpA, Release & Label PaperW: <http://www.cartonal.com>**Catbridge Machinery**W: <http://www.catbridge.com>**CC1, INC**W: <http://www.cc1inc.com>**CEI**W: www.slitandrewind.com**Celeskit Inc / Oracle Paper Group Inc**W: <http://www.celestik.com>**Central Ink Corporation**W: <http://www.cicink.com>**Cerm Management Software**W: <http://www.cerm.be/labels>**CGS**W: <http://www.cgs-oris.com>**Cham Paper Group**W: <http://www.champaper.com>**Channeled Resources Group**W: <http://www.channeledresources.com>**ChemInstruments**W: <http://www.chemsultants.com>

Chemsultants**W:** <http://www.chemsultants.com>**Cheshire Anilox Technology Ltd****W:** <http://www.cheshireanilox.co.uk>**Chesnut Engineering****W:** <http://www.chesnuteng.com>**Clarifoil****W:** <http://www.clarifoil.com>**CleanTech Cleaning Cards****W:** <http://www.cleantechcorp.com>**Clements Industries, Inc.****W:** <http://www.tach-it.com>**Codimag****W:** <http://www.codimag.fr>**COE Carl Ostermann Erben GmbH****W:** <http://www.coe-bremen.de>**Colacril Self-Adhesive Materials****W:** <http://www.colacril.com.br>**Collano Adhesives/nolax Inc****W:** <http://www.collano.com>**Collins Ink****W:** www.collinsinkjet.com**Collomix Ruhr und Mischgerate GmbH****W:** <http://www.collomix.com>**Color Management Group (CMG)****W:** <http://www.colormanagement.com>**Color Resolutions International, LLC****W:** <http://www.colorresolutions.com>**Color-Dec Italy****W:** <http://www.color-dec.it>**Colordyne Technologies**

3275 Intertech Drive, Suite 100, Brookfield, WI USA
 53045-5143
 T: 262-784-1932
 F: 262-373-0405
 E: sales@colordynetechnology.com
 W: www.colordynetechnology.com

Headquartered in Brookfield, Wis., Colordyne Technologies™ (CDT) is a leading manufacturer of efficient, high resolution digital print solutions powered by Memjet™ technologies. Since 2011, CDT has been committed to providing label and tag color on-demand inkjet printers for a wide range of applications and industries at breakthrough speeds and cost effectiveness. CDT's wide range of digital color platforms – from benchtop industrial color

printers to complete, in-line finishing production presses – demonstrate CDT's specialization in scalability of the industry's most versatile products.

Colorgraf Spa**W:** <http://www.colorgraf.it>**Comercial Arqué, S.A.**

Carretera Del Mig 54, Barcelona, L'Hospitalet de Llobregat, 8907, Spain
 T: +34 932 615 300
 F: +34 933 372 690
 E: jmacanas@arque.com
 W: <http://www.arque.com>

Comercial Arqué, S.A. is based in Barcelona in a spacious modern building of 10,000 sqm, with generous production and warehousing, and close to Barcelona's airport, seaport and an important logistics area. Comercial Arqué has subsidiaries in Madrid, Alicante, Casablanca (Morocco) and Monastir (Tunisia). Main products: Thermal transfer ribbon (TTR), fabrics for care labels (Texlin line), anti-theft labels (EAS), RFID inserting machinery and inlays, synthetic paper (Durasin).

Componex Inc**W:** <http://www.componex.net>**Computer Productivity Services Inc.****W:** <http://www.cpsinc.ca>**Continental Datalabel****W:** <http://www.datalabel.com>**ContiTech Elastomer Coatings****W:** <http://www.conti-laserline.com>**Contract Converting****W:** <http://www.contractconverting.com>**Coverpack Benelux B.V.****W:** <http://www.coverpack.nl>**Conversource Inc.****W:** <http://www.conversource.com>**Convertec Graphic Technics AB****W:** <http://www.convertec.se>**Convertech Equipment Pvt Ltd****W:** <http://www.convertechblades.com>**Converting Equipment Intl.****W:** <http://www.slitandrewind.com>**Core Systems International****W:** <http://www.corecutting.com>**Corona Supplies Ltd****W:** <http://www.coronasupplies.co.uk>**Correct-Touch Graphic Arts****W:** <http://www.ctgraphicarts.com>**Cosmo Films Limited****W:** <http://www.cosmofilms.com>**Craig Adhesives & Coatings****W:** <http://www.craigadhesives.com>**CRC Information Systems, Inc.****W:** <http://www.crcinfosys.com>**Creed Engineers****W:** <http://www.creedengineers.com>**Crown Roll Leaf****W:** www.crownrollleaf.com**Crown Van Gelder N.V.****W:** <http://www.cvg.nl>**CSAT GmbH****W:** <http://www.csat.de>**CTC International Inc****W:** <http://www.ctcint.com>**CTS Industries**

408 South Second Street, Cedartown, GA, 30125, United States
 T: +1 770 748 3497
 F: +1 770 748 5133
 E: carolh@ctsindustries.com
 W: <http://www.ctsindustries.com>

CTS Industries is the only exclusive narrow web complete manufacturer of quality anilox rolls for flexo printing presses. Our products are made in the USA for the people by the people. We have 32 years of growth to talk about and we continue to strive for the best.

Currie Group**W:** <http://www.curriegrup.com.au>

Dd

D&K Coating Technologies, Inc**W:** <http://www.dkgroup.com>**D.P.R. S.r.L.****W:** <http://www.dpr-srl.it>**D.W. Renzmann Apparatebau GmbH****W:** <http://www.dw-renzmann.de>

**Daco Solutions Ltd**

Unit 2, Oldbeck Road, Beverley, East Yorkshire, HU17 0JW, United Kingdom
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 F: +44 1482 880 942
 E: sales@daco-solutions.com
 W: http://www.daco-solutions.com

Manufacturers of machinery for the label and narrow web converting industry. Standard product range includes inspection/slitter rewinders, tabletop slitter rewinders, turret rewinders including the unique Daco 3 Combi Turret, and plain label rotary die cutting machines. Daco Solutions has full in-house design and manufacturing capabilities at its works in Beverley, UK, and offers a design and manufacture service, for bespoke machinery to suit customer specific applications.

Dakota Integrated Solutions

W: http://dakotais.co.uk/

DaLian Fujisan Office Equipment

W: http://www.fujisan-ttr.com

Dalim Software GmbH

W: http://www.dalim.com

Dantech Ltd

W: http://www.dantech.co.uk

Dantex Graphics Ltd

W: http://www.dantex.com

Davis-Standard, LLC, Converting Systems

W: http://www.davis-standard.com

DCM Usimeca

W: http://www.dcm.fr

De Rossi Vittorio S.r.l.

W: http://www.derossivittoriano.it

**delfortgroup AG**

Fabrikstrasse 20, Traun, 4050, Austria
 T: +43 7229 776 0
 F: +43 7229 776 18100
 E: info@delfortgroup.com
 W: http://www.releasebasepaper.com

delfortgroup is a manufacturer of high quality specialty papers and is today a leading supplier of release base papers for the self-adhesive and siliconizing industry. The Tersil range is produced in both Tervakoski, Finland and Dunafin in Hungary. Tersil glassine liners are suitable for a wide range of self-adhesive applications and are available in various grammages in standard or customized colours. All products can be tailored-made to meet individual customer requirements. Every label needs a good base.

Delta Industrial Services, Inc.

W: http://www.deltaind.com

Deltapak B.V.

W: http://www.deltapak.nl

Demak S.r.l.

W: http://www.demak.it

**DG press Machines BV**

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 F: +31 319 671 919
 E: info@dgpressservices.com
 W: http://www.dgpressservices.com

Specialists in the field of narrow web offset printing applications. DGPM holds extensive knowledge on the use of offset printing for flexible packaging and labels. Our product portfolio includes the Thallo, a hybrid next generation web offset printing presses in the range of 520 to 1050mm web width. Key element of the Thallo is that it allows variable size printing by the use of sleeves, has the latest technology in automation and can combine it with efficiency features providing this second generation press with critical advantages in terms of profitability.

**Diavy Srl**

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 F: +39 059 565 250
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 W: http://www.diavysrl.com

Diavy is a specialized company which has developed the holographic sector, both in terms of technology/machinery and in terms of products, thanks to continuous research and innovation, enabling the company to grow on the market. Security labels of the void-type are part of our product range together with customized holographic embossed films which combine multiple security level.

Dice Graphic Technologies/Prototype and Production Systems

W: http://www.dicegt.com

Dienes Corporation

W: http://www.dienesusa.com

DigiFlex Ltd

W: http://www.digiflex-print.com

DILLI

W: http://www.dilli.co.kr

DILLI takes great pride in its Neo Titan UV printer series being the worldwide value leader among large format flatbed printers and industrial label printers, as

well its 10-year history of UV printing technology. We pursue harmony between digital wide format and eco-friendly technologies. Neo UV inks are of the highest quality and have been rigorously tested for long-term outdoor durability.

DIP Co.

W: http://www.dipworldwide.com

Dispensa-Matic Label Dispensers

W: http://www.dispensa-matic.com

Distribuidora Gr-fica Novaro, SA de CV.

W: http://www.gnovaro.com

Diversified Labeling Solutions

W: www.teamdls.com

Dixie Graphics

W: http://www.dixiegraphics.com

DJM variable data printing

W: http://www.djm.nl

DMS, INC.

W: http://www.dmsdies.com

DNP IMS America Corporation

W: http://www.dnpribbons.com

DNP IMS Netherlands BV

W: http://www.dnpribbons.eu

Domino North America

W: http://www.domino-na.com

**Domino Printing Sciences PLC**

Bar Hill, Cambridge, CB23 8TU, UK
 T: +44 1954 782 551
 E: enquiries@domino-uk.com
 W: www.domino-printing.com

With over 35 years' experience manufacturing industrial digital inkjet printing systems, we constantly strive to do more for our customers. As the market demands more variation, versioning, personalization and shorter runs, Domino continues to deliver high quality, reliable and flexible digital solutions for a range of labeling and variable data printing applications. If you have label printing or variable data printing requirements including addressing, personalization, numbering, barcodes, 2D and QR codes, Domino has the perfect digital printing solution for you.

Double E Company

W: http://www.doubleeusa.com



Dover Flexo Electronics, Inc.
W: <http://www.dfe.com>

Dow Corning Corporation
W: <http://www.dowcorning.com/psi>

Dowell Printing Equipment Co Ltd
W: <http://www.dowellprint.com>

Doyle Systems (formerly JE Doyle Co.)
W: <http://www.doylesystems.com>

DPL Industri A/S, UV Curing Systems
W: <http://www.dpl.dk>

DPST & DPST Inks
W: <http://www.dpst.us>

Draabe Humidification
W: <http://www.draabe.com>

Dragon Foils Ltd
W: <http://www.dragonfoils.com>

Drello GmbH & Co.
W: <http://www.drello.de>

Drilling Tech Services/POPSS
W: <http://www.drillingtechservices.com>

Drohmann GmbH Easycut
W: <http://www.drohmann.com>

DSE
W: <http://www.dse.uk.com>

Dunmore
W: <http://www.dunmore.com>

DuPont de Nemours (Deutschland) GmbH
W: <http://www.cyrel.eu>

Dupont Packaging Graphics
W: <http://www.cyrel.com>

Durico C&T Inc
W: <http://www.durico.co.kr>

Durst Image Technology US
W: www.durstus.com



Durst Phototechnik
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Durst Phototechnik is a leading manufacturer of professional digital printing systems for large format graphic, industrial and label printing applications based on inkjet technology. The company presents its new digital products in Hall 9, booth 9H57, including a high speed digital UV Inkjet press with in-line laser finishing system. The same press can also handle Non-PS materials and combined with the new UV Inkjet Low Migration Inks the system is designed for food, healthcare, pharma and aluminum packaging applications.

Dyna-Tech Adhesives, Inc.
W: <http://www.dyna-techadhesives.com>

Dynic UK Ltd
W: <http://www.dynic.co.uk>



Eastman Kodak Company
W: <http://www.graphics.kodak.com>

Eckart
W: <http://www.eckart.net>

Ecology Coatings
W: <http://www.ecologycoatings.com>

Edale Ltd
W: <http://www.edale.com>

Edelmann Graphics GmbH
W: <http://www.edelmann-graphics.com>

Edson International
W: <http://www.edson-international.com>

Edwards Label
W: <http://www.edwardslabel.com>

EFI
W: <http://www.efi.com>



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E: info@electro-optic.de
W: <http://www.electro-optic.de>

Manufacturers of flexible magnetic cutting dies for rotary cutting and flatbed die-cutting; long-life-flexible dies; magnetic cylinders and bed plates; rotary cutting cylinders; correction tools for flexible dies; feeler gauge to check the gap between magnetic cylinder and counter-pressure cylinder; microscope for controlling the cutting blades; length measuring tools, electronic power check (EPCH) for controlling the pre-press power on the cutting station.

Electromatic Equipment Co, Inc
W: <http://www.checkline.com>

EM2
W: <http://www.em2.fr>

E-Max
W: <http://www.chiasa.es>

Emmendinger Maschinenbau GmbH
W: <http://www.emmendinger.de>

Encres Dubuit
W: <http://www.encresdubuit.com>

Enercon Industries Corporation
W: <http://www.enerconind.com/treating>

Environmental Inks and Coatings
W: www.siegwerk.com



Epson America Inc.
3840 Kilroy Airport Way, Long Beach, CA, 90806, United States
T: +1 818 620 2730
F: +1 562 290 4530
E: mark_elsbernd@ea.epson.com
W: <http://www.epson.com/surepress>

The SurePress industrial inkjet digital label press with White ink makes high-quality, short-run label printing easier and more efficient, even on metallic and clear substrates. Color match and reproduce spot colors economically for higher saturation and true-to-life shades; proofs are easily made on the press. No color adjustment required during the job or drift of the registration marks. Little substrate waste, low power consumption and only one operator required. Automated maintenance eliminated the need to halt the press during production.

Ercon Inc.
W: <http://www.erconinc.com>

**Erhardt + Leimer GmbH****W:** <http://www.erhardt-leimer.com>

Erhardt+Leimer, specialist for system solutions and automation technology on running webs, ranks worldwide among the leading manufacturers of measuring, inspection and control technology for the label industry. The broad range of products covers solutions for web guiding, web tension measurement and control, print image monitoring and 100% print inspection with high-resolution cameras. Our customized products are directly integrated into the workflow. Erhardt+Leimer was established in 1919. The company has subsidiaries and sales/service offices all over the world.

Errepi S.r.l.**W:** <http://www.erre-pi.it>**Esko****W:** <http://www.esko.com>**Eson CZ**

Karlíčka 457, 252 29, Lety, Czech Republic
T: 00420 2578 300 39,
F: 00420 2578 30529
E: eson@eson.cz
W: <http://www.eson.cz>

Eson CZ s.r.o. came into being as a family business in late 2000. Our knowledge and years of experience in the area of manufacturing self-adhesive labels has been a solid basis for our own production of cutting sheets. Our current production is based at our own production facilities using the best and newest equipment in the field. The newest CNC machines provide the best quality and the certainty of problem-free use of cutting bands by the customer. Our production uses the finest machinery as well as a standardized manufacturing process with 100 percent inspection of every product before delivery. Testing samples and protocols on output measurements are a part of what we supply to customers. Thanks to modern machinery, we can offer customers a high standard of quality and fast delivery as well as products with very non-standard shapes of cutting edges, combinations of cutting edges, microperforations, etc for special uses. Our state-of-the-art technological resources allow our capacity to fully meet the needs of our domestic customers as well as the growing demand from abroad. Our customers from Slovakia, Poland and Bulgaria are proof of this. Our goal is to provide clients with high-quality products and certainty now and to do everything possible so that several years from now that will still be the case.

Esterlam International Ltd**W:** <http://www.esterlam.com>**ETI Converting Equipment****W:** <http://www.eticonverting.com>**Etilux****W:** <http://www.etilux.com>**Etirama European Demonstration Centre****W:** <http://www.etirama.eu>**Etis Slovakia****W:** <http://www.etisoft.eu>**Euro Plus d.o.o.****W:** <http://www.nicelabel.com>**Evonik Goldschmidt GmbH****W:** <http://www.evonik.com/tego-rc>**ExxonMobil Chemical Company****W:** <http://www.oppfilms.com>**EyeC GmbH****W:** <http://www.EyeC.de>**Fag Graphic Systems SA****W:** <http://www.fag.ch>**Far East Yu La Industry Limited****W:** <http://www.sino-foil.com>**FFEI**

The Cube, Maylands Avenue, Hemel Hempstead,
 Hertfordshire, HP2 7DF, United Kingdom,
T: 01442 213 440
W: www.ffei.co.uk

We are on a mission to transform the labels and packaging market. Our digital technologies and experience are helping converters and print businesses to boost production, improve margins, develop new business opportunities and transform their business model.

Our growing portfolio includes a mix of hardware and software products that meet the challenges of the growing digital printing landscape. From Graphium, a modular, digital UV inkjet label press, to RealPro Toolkit, which offers a suite of Adobe Illustrator plugins to tackle pre-press tasks.

FFH - Flexo For Hire/NPPS**W:** <http://www.npps1.com>**Fife-Tidland GmbH****W:** <http://www.maxcess.eu>**Filmquest****W:** <http://www.petfilm.com>**FINAT****W:** <http://www.finat.com>**Fives North American****W:** <http://www.fivesna.com>**Fix-A-Form International Ltd****W:** <http://www.fix-a-form.com>**FLEXcon Company, Inc.****W:** <http://www.flexcon.com>**Flexo Wash ApS**

Grenavej 631K, Skodstrup, 8541, Denmark
T: +45 86 99 36 31
F: +45 86 99 13 43
E: info@flexowash.com
W: <http://www.flexowash.com>

Flexo Wash offers a large variety of cleaning equipment for the flexographic industry. The machines are innovative and the quality is high, which ensure a long product lifetime. The Flexo Wash product line cleans all types of press parts from anilox rolls to ink trays, plates and doctor blades etc, using environmentally friendly cleaning liquids and thus leaving parts totally clean and ready for immediate use after just a few minutes of cleaning.

Flexo Wash LLC**W:** <http://www.flexowashus.com>**FlexoCleaners****W:** <http://www.flexocleaners.com>**Flexoconcepts****W:** www.flexoconcepts.com**FlexoExport Ltd**

5 Center Rd. West, Old Saybrook, CT, 06475, United States
T: +1 860 388 4333
F: +1 860 388 1171
E: office@flexo.com
W: <http://www.flexo.com>

For over 20 years FlexoExport has been buying and selling pre-owned flexographic presses and converting equipment, across the country and around the globe.

Flexographic Technical Association (FTA)/ FLEXO Magazine**W:** <http://www.flexography.org>**Flexographic Trade Services****W:** <http://www.flexotradeservices.com>**FlexoLaser GmbH****W:** <http://www.flexolaser.de>**Flexomaid****W:** www.flexomaid.com**Flexor (EMIS Ltd)****W:** <http://www.flexor.pl>

FlintGroup

Narrow Web

Flint Group Narrow Web

Gutenbergsgatan 1, PO Box 1003, Trelleborg, 231 21, Sweden

T: +46 410 59 200

F: +46 410 59 397

E: niklas.olsson@flintgrp.com

W: <http://www.narrowweb.flintgrp.com>

Flint Group Narrow web (formerly Xsys Print Solutions) leading specialist in narrow web printing inks and varnishes, with the markets widest product range; inks for letterpress, WB flexo, UV flexo, UV offset or UV screen, individually or in combination. We have inks for various applications; self-adhesive labels, wrap-around; in-mold labels, sleeves, flexible packaging and folding cartons. We support you via a global distribution network, ensuring first class delivery service, dedicated local technical support and award-winning print solutions.

FLXON

W: <http://www.flxon.com>

FMS Force Measuring Systems AG

W: <http://www.fms-technology.com>



Focus Label Machinery Ltd

Kendryl Park, Chapel Lane, Nottingham, NG13 8GF, United Kingdom

T: +44 1949 836 223

F: +44 1949 836 542

E: admin@focuslabel.com

W: <http://www.focuslabel.com>

Focus Label Machinery manufactures a range of modular in-line presses with full print cartridge systems (rapid changeover), as well as the new Centraflex 250/330 central impression press, for film, labels, stickers, tickets and cartons. Focus also manufactures the Letterflex range of fabric and garment label printing presses with ultrasonic cutting/folding options. In addition it supplies platemaking, video platemounting and video inspection systems to complement the press ranges.

Folien Fischer AG

W: <http://www.fofi.ch>

Fortisblades

W: <http://www.fortisblades.com>

Fox Valley Technical College

W: <http://www.fvtc.edu/print>

Francis Buhler AG

W: <http://www.francisbuehler.ch>



Franklin Adhesives & Polymers

2020 Bruck St., Columbus, OH, 43207, United States

T: +1 614 445 1337

F: +1 614 445 1555

E: abberaabe@franklininternational.com

W: <http://www.franklinadhesivesandpolymers.com>

We produce a complete offering of high-performance removable, permanent and specialty pressure-sensitive adhesives to meet specific label requirements for many different surfaces. Our adhesives offer various combinations of peel, tack and shear strength for specific applications — from packaging frozen foods to labels that can withstand the heat under the car hood.

Fraser Anti Static Techniques Ltd

W: <http://www.fraser-antistatic.co.uk>

Freschi Italia Srl

W: <http://www.freschi-italy.com>

Frimpeks A.S.

W: <http://www.frimpeks.com.tr>



Frimpeks Inc

W: <http://www.frimpeks.com>

FST GmbH

W: <http://www.fstnet.de>

Fuji Copian (UK) Ltd

W: <http://www.fujicopian.co.uk>

Fujifilm North America Corporation, Graphic Systems Division

W: <http://www.fujifilmusa.com/graphics>



Gallus Ferd. Ruesch AG

W: <http://www.gallus-group.com>

GamSys Software

W: <http://www.gamsys.net>

Garware Polyester Ltd.

W: <http://www.garwarepoly.com>

Gascogne Laminates

W: <http://www.gascognelaminates.com>

General Metal Engraving

W: <http://www.rotarydies.com>

General Srl

W: <http://www.general-technology.co.jp>

GEW (EC) Ltd

W: <http://www.gewuv.com>

GIC-Omegher

W: <http://www.gic-omegher.com>

Global Vision Inc

W: <http://www.globalvisioninc.com>

Globe-Tek Corporation

W: <http://www.globe-tekcorp.com>



Glunz & Jensen Degraf Italy

W: <http://www.glunz-jensen.com>

GMG Americas

W: <http://www.gmgcolor.com>

Gold Fai Printing Machines Ltd. Zhaoqing

W: <http://www.goldfai.com>

Gonderflex International Inc

W: <http://www.gonderflex.com>

Goss

W: www.gossinternational.com

Graficon Maschinenbau AG

W: <http://www.graficon.ch>

Grafisk Maskinfabrik A/S

W: <http://www.gm.dk>

Grafitec Web Ltd

W: <http://www.grafitecweb.com>



Grafotronic

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T: +46 418 567 00

F: +46 418 208 95

E: sales@grafotronic.se

W: <http://www.grafotronic.se>

Finishing machines built to the highest European standards. Grafotronic is a fast growing business. We have supplied a large number of machines to label printing companies in 40 different countries around the world. The Grafotronic concept unites high quality and optimized price/performance ratio. Almost all parts of our machines can be found locally and our engineers are able to monitor your machine from our factory for instant support wherever you need us.

Granwell Products / Polyolith

W: <http://www.granwell.com>

Graphi Mecc Group SRL
W: <http://www.graphimeccgroup.it>

Graphtec Corporation
W: <http://www.graphitecorp.com>

Graymills Corporation
W: <http://www.graymills.com>

Green Bay Packaging Inc.
W: <http://www.gbp.com/coated>



GSB-Wahl GmbH
W: <http://www.gsb-wahl.de>

Complete product range of inks, varnishes and additives. The special focus is straightened on our new MA-Systems (low-migration) for UV flexo, UV letterpress, UV waterless offset and UV varnishes. New water-based flexo inks with extreme good adhesion on films. Specials for use on thermal papers. You get informed about cleaning systems for anilox rolls and spear parts, printing plates too. Our partner TLS shows the newest possibilities in production of anilox tools.



GSE Dispensing
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T: +31 575 56 80 80
F: +31 575 56 80 90
E: info@gsedispensing.com
W: <http://www.gsedispensing.com>

GSE Dispensing (based Brummen, Netherlands) is the world leader in gravimetric dispensing solutions for the graphics, textile and coating markets, with 1500 systems installed worldwide. Featuring cutting-edge software, these reduce make-ready time, achieve spot-on color accuracy, and significantly reduce ink waste. Systems in GSE's program cover all major print processes and ink volume requirements, from narrow-web to corrugated board printing. The Colorsat Match has been launched for the label market. With a global distribution network and a subsidiary in Charlotte, USA, the company offers comprehensive service.

GSM Graphic Supplies & Machinery Ltd
W: <http://www.gsmuk.com>

Guidolin Giroto S.R.L.
W: <http://www.guidolin.com>

Gulton Inc.
W: <http://www.gulton.com>

Hh

H.B. Fuller Europe GmbH
W: <http://www.hbfuller.com>

H.C. Miller Press
W: <http://www.hcmillerpress.com>

Hangzhou Todaytec Digital Co., Ltd.
W: <http://www.todaytec.com.cn>

Hanita Coatings
W: <http://www.hanitacoatings.com>

Hansol

Paper

Hansol
Eulji Street 100(Eulji 2-ga), Junggu, Seoul, Korea, 100-192
T: 82-2-3287-6921
F: 82-2-6031-0929
E: celina@hansol.com
W: www.hansol.com

Hansol Paper is one of leading paper manufacturers in label industry. Hansol makes various face stocks and release liners for pressure sensitive labels. Our product range covers direct thermal papers, coated one side, uncoated freesheet for face materials including CCK, SCK, and glassine papers for liners. Hansol is specialized in making non-top thermal label papers as well as top-coated thermal labels. Hansol Paper is the largest Korean manufacturer in P&W papers, folding carton boards, and specialty papers. Since capacity expansion on thermal production lines in 2013, Hansol became the 3rd largest direct thermal paper producer in the world.

Harper Corporation of America
W: <http://www.harperimage.com>

Harper Graphics GmbH
W: <http://www.harpergraphics.de>

Heidelberger Druckmaschinen AG
W: <http://www.heidelberg.com>

Heights UK Ltd.
W: <http://www.heights.com>

Henan Wellking Technologies Development Co Ltd
W: <http://www.welling001.com>

Henkel AG & Co.KG aA
W: <http://www.henkel.com>

Heraeus Noblelight LLC
W: <http://www.heraeus-noblelight.com>

Herma GmbH
W: <http://www.herma.com/material>

Hewlett Packard
W: <http://www.hp.com/go/labelsandpackaging>

Highlight UV-Technology GmbH & Co. KG
W: <http://www.highlight-uv.de>

HIP-Mitsu s.r.l.
W: <http://www.hip-mitsu.com>

Holfeld Tool & Die Ltd
W: <http://www.htd.ie>

Hologram Manufacturers Association of India (HoMAI)
W: <http://www.homai.org>

Holomex
W: <http://www.holomex.com.mx>

Holostik India Ltd
W: <http://www.holostik.com>

Honle UV America
W: <http://www.honleuv.com>

Hop Industries Corp.
W: <http://www.hopindustries.com>

HP Indigo
W: <http://www.hp.com/go/indigo>

Hueck Folien GmbH
W: <http://www.hueck-folien.com>

Hunkeler AG
W: <http://www.hunkeler.ch>

Huzhou Hengxin Trademark Making Bringing Co Ltd
W: <http://www.hengxinlabel.com>

Huzhou Kingdom Coating Industry Co.,Ltd.
W: <http://www.king-grp.com>

Huzhou Siny Label material Co., Ltd
W: <http://www.sinylabel.com>

Hybrid Software
W: <http://www.hybridintegration.com>

li

IACS
W: <http://www.iacs.be/>

**Icap-Sira Chemicals and Polymers SpA**

Via Corridoni 19, Parabiago (MI), 20015, Italy
 T: +39 331 496316
 F: +39 331 495005
 E: m.tettamanti@gm.icapsira.com
 W: <http://www.icapsira.com>

Through its proprietary technologies: Acrylic Water-Based Polymer Dispersions (Acrilem), Acrylic Solvent-Based Polymer Solutions (Acris), Tackifier Dispersions (Icatak), Polyurethane Water-based Dispersions (Idrocap) and solvent solutions (Icaflex), Pigment Pastes (Mastertint). Icap-Sira is successfully supplying all PSA business segments worldwide: labels, tapes (including special tapes), protective films, graphic arts, medical, special applications. four 'state of the art' manufacturing units at Parabiago, Barberino di Mugello, San Mauro Torinese and Casorezzo are capable of 125 KT/year polymers and compounds. Quality, full commitment to environment, health and safety and innovation are the main drivers of Icap-Sira sustained growth since 1945, year of its foundation.

Idempapers

W: <http://www.idempapers.com/>

IEEC - PBJ Industrial Electronic Pvt Ltd

W: <http://www.ieecpbj.com>

IGT Testing Systems

W: <http://www.igt.nl>

IIMAK

W: <http://www.iimak.com>

**IIMAK Europe**

Liesdonk 5b, Geel, B - 2440, Belgium
 T: +32 1457 9800
 F: +32 1457 9808
 E: sales@iimak.be
 W: <http://www.iimak.eu>

IIMAK is a global leader in TTR manufacturing and specialty printing and marking supplies. Offering a comprehensive product range for barcode and graphics, IIMAK offers solutions for all applications through quality partners around the world. The TTR range features high performance durable resin ribbons and near edge wax-resin inks for high-paced flexible packaging coders. IIMAK's exclusive, patented CleanStart printhead cleaner is a unique feature providing preventative maintenance and cost savings on thermal transfer printheads. IIMAK produces industrial inkjet inks for DOD High Resolution secondary packaging applications. Direct Thermal films are coated for specialty labeling applications in the retail, healthcare and meat business segments.

Imass, Inc.

W: <http://www.imass.com>

Impact Air Systems

W: <http://www.impactair.co.uk>

Impreglon Cellramic

W: <http://www.impreglon.us>

**Industrial Inkjet**

Unit 3, Meridian, Buckingham Business Park, Swavesey, Cambridgeshire, CB24 4AE, United Kingdom
 T: +44 (0)1954 232 023
 F: +44 (0)1954 230 566
 W: <http://industrialinkjetltd.co.uk>

We are leading experts in industrial inkjet design and technology. Based near Cambridge, UK, we are the official sales and technical support centre for Konica Minolta industrial inkjet. We work with our customers, tailoring our products to provide complete solutions for the successful implementation of inkjet technology into a production environment. We can provide fully integrated Digital Label Modules for a wide range of common flexo presses. We have systems for monochrome, colour, white, spot colour and varnish as well as security inks. Our systems are simple to use, economic and above all very, very reliable.

Industrial Molded Rubber Products

W: <http://www.imr-inc.com>

Infinity Foils, Inc

W: <http://www.infinityfoils.com>

Inglese S.r.l

W: <http://www.inglesesrl.com>

**Inkjet Solutions Ltd**

13 Holkham Road, Orton Southgate, Peterborough, Cambridge, PE2 6TE, United Kingdom,
 T: +44 (0) 1733 235 533
 E: john@inkjetsolutions.co.uk
 W: www.inkjetsolutions.co.uk

Inkjet Solutions offer monochrome or CMYK inkjet print engines and Industrial Inkjet Solutions for retrofitting to existing narrow and mid web printing presses. This provides an in-line facility for producing either variable data and/or changing full-colour images, on a pre-printed or plain label; a feature being of particular interest to print buyers needing brand, market, language or product variations. Other equipment types that can be upgraded to include an inkjet module are off-line converting systems and inspection machines. Inkjet Solutions work in partnership with KPG Europe which enables us to supply complete CMYK printing solutions including all standard converting options; the simplest version being roll-to-roll production. Our customised printing solutions can include UV flexo varnish and die-cutting, coupled with many proven processing and converting features.

Inkstar Office Appliance Factory of Tianjin

W: <http://www.inkstar.cn>

Innolutions, Inc

W: <http://www.innoinc.com>

Innovia Films

W: <http://www.innoviafilms.com>

Integration Technology Ltd (ITL)

W: <http://www.uvintegration.com>

Intercoat

W: <http://www.intercoat.de>

Interflex Laser Engravers

W: <http://www.laserengrave.com>

International Financial Services

W: <http://www.ifsc.com>

INX International Ink Co.

150 N. Martingale, Suite 700, Schaumburg, IL, 60173, United States
 T: +1 630 382 1800
 F: +1 847 969 9758
 E: info@inxintl.com
 W: <http://www.inxinternational.com>

INX is the third largest producer of ink in North America and a global supplier as part of Sakata INX worldwide operations. We are an industry leader offering a full line of ink and coating solutions technology for commercial, packaging and digital print applications. Our product solutions focus on metal decorating, flexographic, gravure, web offset, lamination, corrugated, sheetfed, inkjet and UV/EB inks and coatings. Our Evolve Advanced Digital Solutions were developed to assist conventional impact printers with the integration of digital inkjet printing.

IRAC Srl

W: <http://www.irac.it>

ISRA Surface Vision GmbH

W: <http://www.isravision.com>

IST Metz GmbH

W: <http://www.ist-uv.com>

iSys Label

Lauterstrasse 14-18, Nuertingen, D-72622, Germany
 T: +49 (0) 7022 6002 0
 F: +49 (0) 7022 6002 950
 E: ist@ist-uv.com
 W: www.ist-uv.com

IST Metz supplies UV systems for label printing, flexo printing and direct mail and forms printing with different outputs ranging from 120 to 200 W/cm, in compact designs with just air cooling or combined air/water cooling. New products: MBS-5 is a high efficient UV curing system for label printing that takes cost reduction to a new dimension. Reduced energy consumption with increased UV yield. Chill roll technology for temperature-sensitive materials. Quick change for lamps.

5
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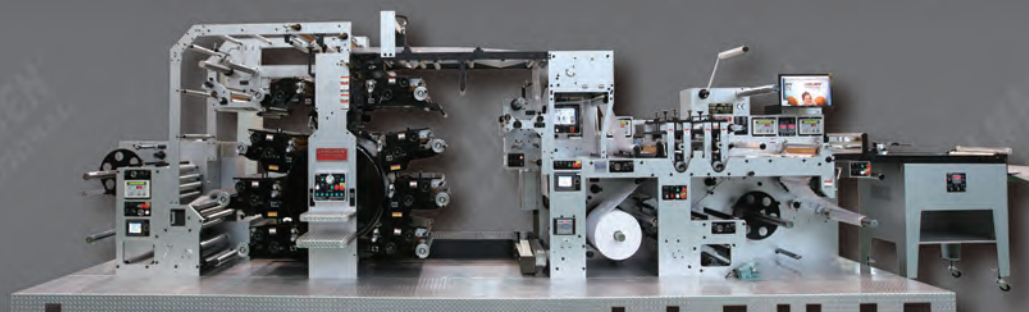
RS-350PS

Multi-Functional Full Rotary/Intermittent Offset Printing Machine



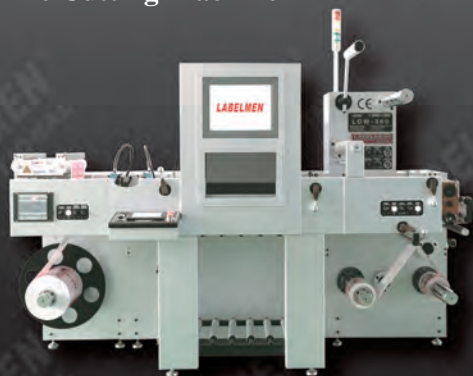
PW-460-R7C

7-Color Full Rotary Letterpress



IDW-360

High Speed Full Rotary/Intermittent Die Cutting Machine



IDW-360S2R

Laser Die Cutting Machine



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Tao-Yuan Hsien(333), TAIWAN

TEL: 886-3-318-3939 (10 Line)
FAX: 886-3-396-2020 (國內部)
FAX: 886-3-396-2121 (International)
<http://www.labelmen.com>
E-mail: webmaster@labelmen.com



Italnastri S.p.A

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 T: +39 057 158 8949
 F: +39 057 158 8133
 E: italnastri@italnastri.it
 W: <http://www.italnastri.it>

Italnastri produces self-adhesive paper and films since 1978. Our offer includes products for squeezable applications, solutions for digitally-produced prints (Indigo, Xeikon), products for recyclable packaging as well as a wide range of articles for the oenological sector.

Itasa

W: <http://www.itasa.es>

ITD S.r.l

W: <http://www.textil.it>

ITW Dynatec

W: <http://www.itwdynatec.com>

ITW Foils BV

W: <http://www.itwfoils.nl>

ITW Thermal Films

W: <http://www.itwthermalfilms.com>



Iwasaki Tekko co., Ltd.

Iwasaki International Inc.

W: <http://www.itk-iii.co.jp>

**J M Heaford Ltd**

W: <http://www.jmheaford.co.uk>

J&J Converting Machinery

W: <http://www.jjconvertingmachinery.com>

Jalema Filing Systems

W: <http://www.jalema.com>

Jänecke+Schneemann Druckfarben GmbH

W: <http://www.js-druckfarben.de>

Jelight Company Inc

W: <http://www.jelight.com>

Jemmco

W: www.jemmco.com

Jet Europe BV

W: <http://www.jeteurope.nl>

Jet USA Corporation

W: <http://www.jetusa.com>

Jiaozuo Zhuorim Digital Material Co Ltd

W: <http://www.zhuorim.com>

Jindal Films

W: www.jindalfilms.com

**Jujo Thermal Ltd.**

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 F: +358 10 303 2419
 E: jujosales@jujothermal.com
 W: <http://www.jujothermal.com>

Jujo Thermal is a leading supplier of paper based direct thermal face materials to the self-adhesive label industry. When selecting labels based of Jujo Thermal paper, you not only get good looking printouts and perfectly scanning bar codes, you get maximum performance out of your printing system as well. Jujo Thermal is the safe solution.

Jurmet sp. z.o.o.

W: <http://www.jurmet.com.pl>

JV Imaging Solutions, Inc

W: <http://www.jvisinc.com>

**K Laser Technology (USA) Co., Ltd.**

W: <http://www.coldfoil.com>

K Laser Technology Inc.

W: <http://www.klasergroup.com>

K2 International

W: <http://www.k2flexo.com>

Kanzaki Specialty Papers

W: <http://www.kanzakiusa.com>

KANZAN Spezialpapiere GmbH

W: <http://www.kanzan.de>

Karlville Development LLC

W: <http://www.karlville.com>

KCC Silicones

W: <http://www.kccworld.co.kr>

KEco

W: www.kecocoatings.com

Kersten Elektrostatik GmbH

W: <http://www.kersten.de>

Kett US

W: <http://www.kett.com>

KG Digital Solutions

W: <http://www.kgdigital.com>

King Label Adhesive Products Co., Ltd

W: <http://www.kinglabel.com>

Kingfisher Inks

W: <http://www.kingfisherinks.com>

Kirk-Rudy/Ohio Addressing Machine

W: <http://www.ohioaddressing.com>

KK Enterprise Co., Ltd.

W: <http://www.kk-tack.com.tw>

Klockner Pentaplast

W: <http://www.kpfilms.com>

Koan Hao Enterprise Co.,Ltd

W: <http://www.koanhao.com>

**Kocher + Beck GmbH + Co.****Rotationsstanntechnik KG**

Dieselstrasse 6, Pliezhausen, 72124, Germany

T: +49 7127 9785 28

F: +49 7127 9785 55

E: mstierle@kocher-beck.de

W: <http://www.kocher-beck.de>

Global supplier of cutting tools with production plants in Germany, UK, USA and Russia. The product range includes flexible dies for flat and rotary applications; magnetic cylinders; solid cutting cylinders CNC and EDM; sprocket hole punching dies; slitting and perforating cylinders; crosscutting and perforating cylinders; print cylinders; hot stamping tools and die-cutting units; Special tools like Gap Master System, Tec Screen System and UR Precision, a non stop winding technology.

Kodak

W: <http://www.kodak.com/go/packaging>

Kolon USA Inc

W: <http://www.kolon-usa.com>

Komori

W: www.komori.com

Kongsilde Industries A/S

W: <http://www.kongsilde.com>

KPG (Europe) Limited

W: <http://www.kpg-europe.com>

KPG Corporation

W: <http://www.kpg-corp.com>

Kroenert

W: <http://www.kroenert.com>

KTI-Keene Technology, Inc.

W: <http://www.keenetechnology.com>

Kugler-Womako GmbH
W: <http://www.kw.kpl.net>

Kühnast Strahlungstechnik GmbH
W: <http://www.uv-technology.de>

Kunshan Formula Coating Technology
W: <http://www.formulacoating.com>

Kurz Transfer Products LP
W: <http://www.kurzua.com>

Kyoto International Corporation
W: <http://www.lanbel.jp>



Label Planet Pvt. Ltd.
W: <http://www.label-planet.com>

Label Traxx
W: <http://www.LabelTraxx.com>

Label Vision Systems, Inc
W: <http://www.lvs-inc.com>

Labelform Graphics Ltd
W: <http://www.labelformgraphics.co.uk>

LABELMATE LLC

Labelmate LLC.
69 Avenue Alphonse XIII, Brussels, 1180, Belgium
T: +32 2 375 6960
F: +32 2 375 3896
E: brussels@labelmate.com
W: <http://www.labelmate.com>

Labelmate is the leading manufacturer of quality label rewinders, unwinders, dispensers, slitters, counters and core chucks. A new range of label transport systems was developed for inkjet printing and RFID programming. Labelmate products are engineered and manufactured in Brussels, Belgium. Labelmate products are available in more than 70 countries around the world. All rewinders have a 5-year parts and labor limited warranty. All other products are backed by our 3-year parts and labor limited warranty.



Labelmen Machinery Co. Ltd
No. 9, Tin-Hu 3rd St., Kuei Shan Hsiang, Tao-Yuan Hsien, 33378, Taiwan
T: +886 3 318 3939
F: +886 3 396 2121
E: webmaster@labelmen.com
W: <http://www.labelmen.com>

Labelmen is a renowned brand name in printing industry

for more than 40 years, specializing in manufacturing of full rotary letterpress, silk screen printing machines and multi-functional flat bed label printing presses. If you are in the business of in-mold label, self-adhesive label, laminated tubes, single layer non-supported films (BOPP, PET, PVC) or other packaging materials, you certainly should experience the Labelmen presses for sharpening your image, not only for your printing, but also for your company.



Labeltech sas di Gabriele D'Onofrio & C
Via Sicilia 51, Binate (MI), 20020, Italy
T: +39 331 307031
F: +39 331 305597
E: info@labeltech.it
W: <http://www.labeltech.it>

Labeltech sas is your trusted partner for slitting, rewinding, die-cutting and label inspection machines that supports you through the label finishing process. We believe that customization is the key to reach client's requirements at the lowest cost, so instead of several models with different uses and performances, we offer just one general purpose base model at the state for both paper and plastic film support, and a wide range of accessories. Our machine is fully servo-driven and can detect missing label and matrix waste at top machine speed of 350m/min (980fpm). A high factory integration level has been reached with the latest 11 color touch screen with ethernet/wi-fi connection. This innovation makes possible the connection with company database for statistic storage, a detailed production monitoring, the possibility of determine the job schedule off line and a quick and secure internet tele service, for remote machine debug and software update. Versatility, technology and usability are its best skills and place our machine among the best products on market.

Laem Systems Srl
W: <http://www.laemsystem.com>

Lake Image Systems Ltd
W: <http://www.lakeimage.com>

Lamp Tech
W: <http://www.lamp-tech.com>

Lartec - Flexible Dies
W: <http://www.lartec.com.es>

Lecco Industries Ltd
W: <http://www.suncrown.com>

Lederle Machine Company
W: <http://www.lederle.com>

Lemmaco Kft
W: <http://www.lemmaco.com>

LeoMat GmbH
W: <http://www.leomat.de>

Leonardus S.r.l - Italy
W: <http://www.leonardus.it>

Leonhard Kurz Far East Ltd.
W: <http://www.kurzfe.com.hk>

Leviteks Ltd. Sti.
W: <http://www.leviteks.com>

Lieben Dies
W: <http://www.liebendies.co.za>

Link Label Machinery Co Ltd
W: <http://www.linklabel.com>

Lintec (Suzhou) Tech Corporation
W: <http://www.lintec.co.jp>

Lintec Europe BV
W: <http://www.lintec-europe.com>



Lombardi Converting Machinery Srl
W: <http://www.lombardi.it>

Lombardi Converting Machinery s.r.l. is a company that has been operating for 30 years in the sector of converting machinery. Since 1994 Lombardi enters the field of flexographic printing with Lexus, a narrow web central drum flexo press. At Labelexpo 2007 Lombardi presents Flexoline, the narrow web flexo press in line. In 2008 Lombardi presents Synchroline, fully servo motorized and register control flexo press. In 2010 Lombardi acquires the company DMR, entering in the field of screen printing machines.

Longford International Ltd
41 Lamont Avenue, Toronto, ON, M1S 1A8, Canada
T: +1 416 298 6622
F: +1 416 298 6627
E: sales@longfordint.com
W: <http://www.longfordint.com>

Longford International is a leader in the design, manufacturing and supply of friction feeders and custom systems for the print finishing and label printing industries. The patented OS700 Triple Motor Surge Feeder feeds booklets to a pinch point of a web press or offline finishing system at speeds of up to 40,000 pieces per hour with pinpoint accuracy of +/- 0.5mm. Longford also manufactures custom high speed tipping feeders and systems for the pharmaceutical printing industry.

Loparex LLC
W: <http://www.loparex.com>



LTHD Corporation SRL
70 Ardealului Str., Timisoara, Timis, 300153, Romania
T: +40 256 201273
F: +40 256 490813
E: lthd@lthd.com
W: <http://www.lthd.com>

LTHD Corporation is the leading producer in Romania of special labels for electronic, automotive and

general purpose activities. Using digital equipment and special materials like polyimide, polyester, vinyl, acrylate, paper, LTHD Corporation is capable of short delivery times and flexible production schedule. LTHD Corporation is always ready to meet the customer requirements focusing on several aspects: planning and consultancy, material and equipment supply, process support, media identification and supply: labels, printers, ribbons, barcode scanners, system integration, traceability and authorized service.

Luminescence

W: <http://www.luminescence.co.uk>

Lundberg Tech A/S

W: <http://www.lundbergtech.com>

Lüscher AG Maschinenbau

W: <http://www.luescher.com>

Mm

m print morlock gmbh + co. kg

W: <http://www.mprint.biz>

Macdermid

W: www.macdermid.com

Mach III Clutch Inc

W: <http://www.machiii.com>

Mactac

W: <http://www.MACtac.com/rolllabel>

Magnum Magnetism Corporation

W: <http://www.magnummagnetism.com/labelmag>

Malbate

W: <http://www.malbate.com>

Manter

W: <http://www.manter.es>

Manufacturing Supplies

W: www.mfgsup.com



Marabu

Marabu GmbH & Co. KG

Asperger Straße 4, 71732 Tamm, Germany

T: +49 7141 691 0

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W: <http://www.marabu-inks.com>

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UltraRotaScreen UVRS and UVSF have been developed for rotary label printing machines and are perfectly suitable for combination printing. UVRS has excellent overprintability with UV letterpress and UV offset, UVSF is a silicone-free formulation for the combination with UV flexo ink systems.

Mark Andy

W: <http://www.markandy.com>

Mark Products Corp

W: <http://www.mpc800.com>

Martin Automatic Inc

W: <http://www.martinautomatic.com>

Mastercorp Group

W: <http://www.mastercorp.com.br>

Matho GmbH

W: <http://www.matho.com>

Matthias Paper Corporation

W: <http://www.matthiaspaper.com>



Daetwyler

Max Daetwyler Corporation

13420 Reese Blvd. West, Huntersville, NC, 28078, United States

T: +1 704 875 1200

F: +1 704 875 0781

W: <http://www.daetwyler-usa.com/pressroom/>

Manufacturer of custom-made doctor blades for flexo, gravure, and specialty printing; specialized doctor blades for all printing and coating applications, including the One-Step, which eliminates or greatly reduces UV spitting and the Soft Blade, which is designed to significantly reduce score lines; ultrasonic cleaning systems. Daetwyler also offers a NEW Elastomeric Flexo Printing Plate Process providing top-quality and reproducible printing forms in a single production step! From pre-press to pressroom, Daetwyler provides solutions necessary to improve efficiency and productivity.

Maxcess International

W: <http://www.maxcessintl.com>

MCS, Inc.

W: <http://www.mcspro.com>



MDV GmbH

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F: +49 6188 952 212

E: info@mdv-group.com

W: <http://www.mdv-group.com>

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Meech International

W: <http://www.meech.com>

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T: +49 2336 92 92 80

F: +49 2336 92 92 85

W: <http://www.melzergmbh.com>

MELZER maschinenbau GmbH is a leading machine supplier for RFID technology in the high-tech sector and has been serving the industry with customized solutions for more than 50 years. Production lines for smart labels, tickets and luggage tags with patented transponder selection (HF/UHF), integrated punching units, trim removal and various other options have been convincing many customers around the globe. Beside paper-based RFID converting equipment MELZER also offers machinery for processing plastic materials to high-end cards like e-NID cards, driver licences, e-passports (holder/cover page) etc.

Merobel - Redex Andantax

W: <http://www.merobel.com>

Metagalaxy Industries Co., Ltd.

W: <http://www.metagalaxy.com.tw>

Microplex

W: <http://www.microplex-usa.com>

Mid American Rubber

W: <http://www.midamericanrubber.com>

Mida Maquinaria

W: <http://www.midamaquinaria.com>

Midway Rotary Die Solutions

W: <http://www.midwayrotary.com>

Mimaki Europe BV

W: <http://www.mimakieurope.com>

Minus Nine

W: www.minus9.com

Mirage Inks Ltd

W: <http://www.mirageinks.com>



Mitsubishi Hitec Paper

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T: +49 521 2091-582

F: +49 521 2091-610

E: ralf.buhl@mitsubishi-paper.com

W: www.mitsubishi-paper.com

Mitsubishi Polyester Film

W: <http://www.m-petfilm.com>

Miyakoshi Printing Machinery Co. Ltd
W: <http://www.miyakoshi.co.jp>

MLC Facas de Preciso
W: <http://www.mlc.com.br>

Moist Tech
W: <http://www.moisttech.com>

Molco n.v.
W: <http://www.molco.com>

Momentive Performance Materials
W: <http://www.momentive.com>

Mona Equipments
W: <http://www.monaequipments.com>

Mondi Coatings & Consumer Packaging GmbH
W: <http://www.mondigroup.com>



Monotech
3rd Floor, City Centre, 66, Thirumalai Road, T. Nagar,
Chennai, 600 017, India
T: +91 44 28157894
F: +91 44 2815 7973
E: inkjetsales@monotech.in
W: <http://www.monotechinkjetsystems.in>

With its head office in Chennai, MSL has 12 regional offices providing spare parts and sales and service support to its customers. The company employs more than 250 people all over India. Engaged in supply of world's leading printing, pre-press and print finishing equipment and also manufactures its own inkjet system for large format printing and single pass high-speed variable data printing under its own brand names Pixeljet and JETSCI respectively.

Morgan Design Group
W: <http://www.mdgglobal.com>

MPI Release
W: <http://www.mpirelease.com>



PRINTING PRODUCTIVITY

MPS Systems B.V.
Lichtenhorststraat 4, 6942 GT Didam, Netherlands
T: +31 (0)316 291 260
F: +31 (0) 316 291 263
E: info@mps4u.com
W: <http://www.mps4u.com>

MPS is a worldwide, well-known and high-quality brand of flexo and offset press solutions for label and flexible packaging printers.

By providing extensive knowledge and world-class service to enhance the printing process, MPS helps customers excel.

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Through use of our know-how and capabilities, we can recommend press solutions that best serve our

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customer's requirements.

MPS has a team of experts when it comes to knowledge of the printing process and desired results in label and flexible packaging print runs.

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Roding Germany
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F: 0049 9461 952 – 1101
E: info@muehlbauer.de
W: <http://www.muehlbauer.com>

Mühlbauer is a global, independent consultant and manufacturer of turnkey automation solutions for the smart card, rfid smart label, semiconductor backend, flexible solar cell manufacturing and vision industries. Mühlbauer solutions enable clients to manufacture any type of chip card, including id cards, e-passports, e-visa, contact, contactless and dual interface cards, as well as multimedia cards and rfid smart labels (active and passive) for access control, supply chain management, tracking of goods and applications for the retail industry.

Munksjo
W: www.munksjo.com

Muller Martini Druckmaschinen GmbH
W: <http://www.mullermartini.com>

Multifeeder Technology Inc
W: <http://www.multifeeder.com>

Multi-Plastics, Inc.
W: <http://www.multi-plastics.com>

MultiSTiQ International Coating B.V.
W: <http://www.multistiq.nl>

Multitec Aids Pvt Ltd
W: <http://www.multitecworld.com>

Nn

Nadco Tapes & Labels, Inc
W: <http://www.nadcoinc.com>

Nagel Paper
W: <http://www.nagelpaper.com>

NAStar Inc.
W: <http://www.nastar-inc.com>

Nastrificio di Cassano SpA
W: <http://www.nastrificiodicassano.com>

National Paper Company
W: <http://www.nationalpapercompany.com>

Nazdar
W: <http://www.nazdar.com>

NDC Infrared Engineering
W: <http://www.ndcinfra.com>

NDC Spray Coating System Fabricating Co., Ltd.
W: <http://www.ndccn.com>

Neenah Paper Inc
W: <http://www.neenah.com>

Neuralog GHS Label Printers
W: <http://www.drumlabelprinter.com>

New Force Magnetics
W: <http://www.newforcemagnetics.com>

Newell Busines Services Co., Ltd
W: <http://www.newellbiz.com>

NEWFOIL MACHINES LIMITED

Newfoil Machines Limited
Moorhey Engineering Works, Moorhey Street,
Oldham, Lancashire, OL4 1JE, United Kingdom
T: +44 (0)161 627 0550,
F: +44 (0)161 627 0551
E: sales@newfoilmachines.co.uk
W: <http://www.newfoilmachines.co.uk>

Newfoil Machines Limited, the world's leading supplier of hot foil stamping and embossing machines to the label printing industry, manufactures presses which are capable of converting a wide and diverse range of materials and products, including cartons, hologram stamping, laminating, security tags and labels, converting digital print, variable data identification and RFID products. The Newfoil range covers press sizes of 170mm, 250mm, 305mm and 350mm wide webs.

NewPage Corporation
W: <http://www.newpagecorp.com>

NexGen Enviro Systems Inc
W: <http://www.nexgenenviro.com>

Nicely Machinery Development Co. Ltd
W: <http://www.nicely.com.tw>

Nickel Printing Machinery Co Ltd
W: <http://www.nickel8.com>

Nicoat

Nicoat
1600 Glenlake Ave., Itasca, IL, 60143, United States

Multi-technology

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rotogravure
inkjet digital
rotary screen
in-line lamination

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flexible film
folding carton
multi-layer & laminates
aluminum

Multi-application

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shrink sleeves
IML labels
wine labels
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booklet labels
flexible packaging
carton boxes
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**Nikka Research Deutschland GmbH**

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F: +49 711 1608 92-1
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W: <http://www.nikka-research.com>

Nikka Research Deutschland GmbH is specialized in providing high-tech automation, inspection and measurement solutions for the labels and packaging printing industries. We are part of the Nikka group with more than 50 years' experience in providing solutions for the graphic industry. Our product line includes cameras for printing machine and rewinder inspection and PDF-to-print comparison for the pre-press. We offer complete solutions for workflow, variable data and hologram inspection for cosmetics, pharmaceutical, security, packaging, beverage and food product printing.

Nilpeter A/S

W: <http://www.nilpeter.com>

Nordson Engineering GmbH

W: <http://www.nordson.com>

Noritsu America Corporation

W: <http://www.noritsu.com>

Novamelt

W: <http://www.novamelt.com>

NuCoat Inc

W: <http://www.nucoatinc.com>

Nuova Gidue S.r.l

W: <http://www.gidue.com>

**OKI proColor**

W: <http://www.okidata.com/procolor>

**Omet Srl**

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0341 367513
F: +39 0341 284466
E: comm@omet.it
W: <http://www.omet.it>

Omet is a world-leading manufacturer of narrow-web flexographic printing presses for labels, folding carton and flexible packaging. Besides great experience in UV flexo technology, Omet can also offer rotary-screen and rotogravure printing units, interchangeable with standard Omet flexo printing units. The quality

and speed of Omet post-sales customer service is well known to our customers, whether concerning the supply of spare parts, resolution of any kind of problems or for consultation on future projects.

Omnova Solutions Inc.

W: <http://www.omnova.com>

**Open Data Srl**

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F: +390775774018
E: info@openitaly.com
W: <http://www.openitaly.com>

Open Data is a leading producer of hand-held labelers with a worldwide network of distributors and dealers. Its range of labelers includes: one, two and three-line guns, alphanumerical models, machines with bold digits and sequential labellers with consecutive numbering bands. Its latest projects consist in the production of a very light and handy labeler, especially designed for extremely competitive markets, an electronic label applicator, completely innovative.



**CONCORD/hitek
ORTHOTEC**

Orthotec, Wan An Precise Machinery Works Co., Ltd.

7-1 Lane 18 Section 2, 1st Floor, Taipei, 10662, Taiwan
T: +886 2 23635092
F: +886 2 23622137
E: orthotec@ms1.hinet.net
W: <http://www.orthotec.com.tw>

Orthotec manufactures the TWP3552 Twin Hybrids rotary machine, featuring hybrid flexo and letterpress inking system in one station and a hybrid web feed system: either semi- or full-rotary in one machine. The CFT3536 semi-rotary offset machine features an exclusive inking design for quicker and easier make-ready and material saving. The CSL3022 semi-rotary machine's new inking system upgrades the quality of the letterpress printing. The SRN3030 silkscreen printing machine includes the new patented Squeegee Motion, which increases speed by three times.

Ownx Technologies

W: <http://www.ownxtech.com>

**Pack Vision BV**

W: <http://www.packvision.nl>

PAMARCO
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**Pamarco Global Graphics**

235 East 11th Avenue, Roselle, NJ, 07203, United States
T: +1 404 691 1700
F: +1 404 691 6782
W: <http://www.pamarcoglobal.com>

As the world's largest anilox supplier, Pamarco Global Graphics is the leader in technology and innovation for flexible and corrugated printing. Using our industry knowledge, product offerings, commitment to customer satisfaction and technological capabilities we develop solutions for customers around the world. Pamarco's high performance engraving technologies, EFlo™, ThermFlo™ and LaserFlo™ are able to provide an unparalleled range of printing possibilities.

Pantec GS Systems AG

W: <http://www.pantec.com>

Papertec Inc

W: <http://www.papertecinc.com>



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F: +49 7802 81-4330
E: info@koehlerpaper.com
W: www.koehlerpaper.com

The name Koehler stands for high-quality special papers in the areas: thermal papers, carbonless papers, fine papers and technical specialties, colored papers and specialties, decor papers and wood pulp board. With a turnover of 692 million euros, sales of around 500,000 tons of paper and 1.800 employees, the Koehler Paper Group is one of the few independent German companies in the paper industry. We use state-of-the-art technology to produce paper for you at four locations – our head office in Oberkirch and mills in Kehl, Greiz and Weisenbach.

Paragon Inks

W: <http://www.paragoninks.co.uk>



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PC Industries

W: <http://www.pcindustries.com>

PCM Image-Tek

W: <http://www.image-tk.com>

PCMC - Paper Converting Machine Company

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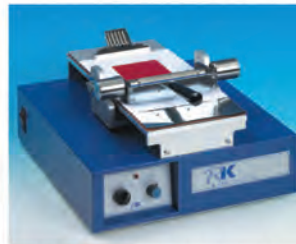
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www.rkprint.com

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= A division of
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Nordic

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- CONVERTING TOOLS

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PCT
W: www.teampct.com

Perfect Proofer by Integrity Engineering
W: <http://www.perfectproofer.com>

Perfecto Web-Control Pvt Ltd
W: <http://www.perfectowebcontrol.com>

Phidastien
W: <http://www.phidastien.com>

Phoseon
W: www.phoseon.com

Pinewood Label Systems Limited
W: <http://www.pinewoodlabels.com>

Pitman, An Agfa Company
W: <http://www.agfagraphics.com>

Plastic Suppliers
W: www.plasticsuppliers.com

Platingtech Beschichtung GmbH
W: <http://www.platingtech.at>

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POLAR configures economically attractive systems for small and medium print runs as well as highly-automated inline systems for the industrial production of labels. For an optimized and high quality production of square-cut labels you can trust on our LabelSystems SC-20, SC-21 and SC-25. POLAR LabelSystems DC-M, DC-11 as well as DC-11plus are the technological answer to demanding challenges of die-cut labels. Our counter pressure die-cutters (LabelSystems DCC-M and DCC-11) are suitable for special printed materials, e.g. In-mould.

Polinas Plastic of America, Inc.
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Print Proof Solutions helps flexo printers with lowering cost and saving time with press proofing their inks. The company is the European distributor for the Perfect Proofer, an automated proofing system for flexo inks with a proven track record and an installed base of 100 systems worldwide. Print Proof Solutions is located in the Netherlands.

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Schobertechnologies GmbH is a subsidiary of Schober GmbH Holding and specializes in the development, design and manufacturing of rotary tools, modules and specialty machines widely used in film, foil, packaging, nonwovens and paper converting industries. Schobertechnologies GmbH is constantly developing and improving their standard range of products. Due to their design, engineering and development techniques, they are able to offer customers single source solutions.

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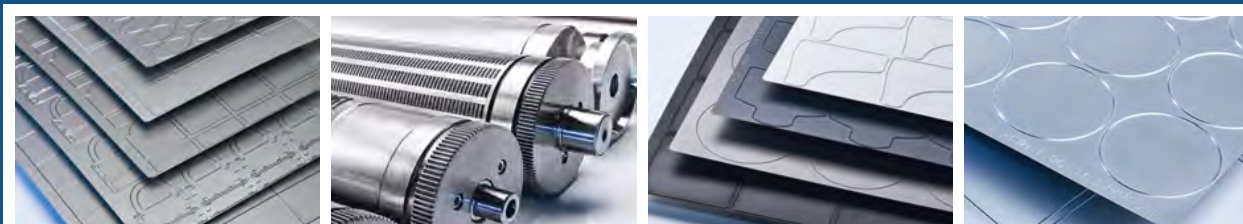
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