2019
INTERTECH™ TECHNOLOGY AWARDS

Congratulations to these InterTech recipients for their company's inspiring innovations.

Honoring the development of innovative technologies for graphic communications and related industries.
2019 InterTech Recipients

Océ ProStream 1000
Canon Solutions America

Print Control Wizard
Esko USA

PrintFlat
Global Graphics Software

HP PageWide True
Water-based Inks
HP Inc.

HP PrintOS Color Beat
HP Indigo in Collaboration
with Vistaprint

HYBRID VDP
Hybrid Software Inc.

VRCut Ready
Triumph Cutters
MBM Corporation

KODAK FLEXCEL NX
Ultra Solution
Miraclon

RICOH Pro VC70000
Ricoh USA, Inc.

tilia Phoenix 7.0
Tilia Labs Inc.
For 40 years the awarded technologies have been a harbinger of the trends altering the future of our industry. Since 1978, the InterTech™ Technology Awards have honored technologies predicted to have a major impact on graphic communications and related industries. Past honorees have introduced entirely new products and services that have revolutionized ways of working and enabled printers to operate more efficiently.

This year we are pleased to present the 2019 Printing Industries of America InterTech™ Technology Awards recipients and candidates. This premier program recognizes emerging technologies that have a significant impact on the advancement of the graphic communications industry.

The InterTech competition is conducted annually by Printing Industries of America to showcase and encourage continuous development of new products and technologies that aim to improve the industry, increase production quality, and foster operational excellence. Each entry is examined by an independent panel of judges against the following criteria. First and foremost, the technology must be truly innovative—not just an evolutionary improvement to an existing product. Further, it needs to enable printers to operate more efficiently or provide new products or services with a clear return on investment. Finally, the product or service must be commercially available, yet not be in widespread use.

The judges review each technology entry and then gather to vigorously debate their “breakthrough” nature. We assume all of the technologies are excellent performers, but the argument lies in which ones are truly innovative.

Jim Workman
Vice President, Center for Technology and Research
New printing challenges demand a new, innovative approach. Designed for a commercial printing market, the Océ ProStream series from Canon Solutions America provides high-coverage, high-quality inkjet printing that takes continuous-feed inkjet technology beyond its current limits and deeper into the commercial printing and graphic arts mainstream. This is a press for commercial printers looking to enhance their applications and service offerings as well as transfer work from existing offset presses.

The ProStream is a web-fed inkjet production print engine that can print 22-inch (565 mm) width and was developed with the requirements of premium direct mail and high-quality commercial print applications in mind. It’s been designed from the ground up to combine the best technologies in digital and offset printing as well as fit into technology-driven progressive environments and business cases of innovative commercial printers and specialized direct mailers. It’s a tool that allows printers to provide more targeted content, shorter turnaround times, and better service.

The ProStream excels in demanding applications where existing printing technologies run into limitations: run lengths that are too short for offset to operate profitably, overall volumes that are beyond throughput levels of toner engines, and media latitude that is beyond that of existing inkjet presses. Printers can use the ProStream to take over low run lengths to free up offset presses to print more profitable long run jobs, add personalized content beyond monochrome imprinting, increase volumes in toner applications, and replace several toner engines for cost efficiency. In addition, the ProStream is one of the only production inkjet presses to print on commodity-grade offset glossmatte, silk, and dull papers by incorporating three new key innovations: ColorGrip application, polymer-based pigment ink, and a flotation dryer that keeps the paper web floating above rollers and mechanical parts. These advantages eliminate the need, cost, and extra steps of UV or other protective coatings.
The ProStream prints at 1200 x 1200 dots per inch at full rated speed and has among the highest print quality in its productivity class, allowing users to move work from unprofitable offset runs without compromise.

With a rated uptime of a roll-to-roll system at 90 percent, customers can produce more jobs per day. In fact, customers can profitably run up to 35 million pages per month with one operator per shift.

The ProStream offers product cost savings thanks to its ability to run on commodity grade papers and use durable ink. It is easy to operate and has excellent uptime and reliability. The ProStream keeps the high-quality profitable work, such as marketing collateral like direct mail or catalogs, rolling off the press. This truly is an inkjet press that can serve the needs of the commercial print market.
“CANON ALLOWS ME TO SLEEP AT NIGHT.”
—Chris Kropac Jr., PCI Group

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KODAK FLEXCEL NX performance – quality & productivity

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Solvent -free & VOC free- commitment to sustainable package printing
Esko’s Print Control Wizard is an innovative response to the shortage of skilled flexo press operators and the growing demand for more high-quality, short-run print work.

Print Control Wizard is an intuitive wizard-based tool that brings innovation to the platemaking department by simplifying the implementation of screens and curves for the flexo print process. Creating and managing flexo screening and imaging processes can be tedious and time-consuming. Printers typically need a color, prepress, and plate making expert who understands screening and color management and a wide range of variables just to ensure consistent plates. This game-changing technology allows almost anyone to create superior flexo plates, eliminating the time needed to train and develop new operators.

The Print Control Wizard walks the operator, step by step, through the process of defining screens and curves for a flexo press. Designed to be instinctive, efficient, and flexible, Print Control Wizard offers a company-wide way to standardize and optimize flexo curves and screening for trade shops and label and flexible converters—regardless of the skill or experience level of its operators.
Thanks to its wizard-based system, Print Control Wizard is simple for operators with less experience, but retains the accuracy, flexibility, and operational efficiency required by more experienced operators. It considers all the parameters in play within the platemaking and flexo print process: plate exposure, processing system, plate type, press, substrate, ink, tape, anilox, and print target to build stable and specific output for the individual platemaking and press environment.

This tool reduces the implementation time for screens and curves, speeds up the day-to-day repro tasks by keeping plates cleaner on press and applying a "dot clean up" function, improves overall equipment efficiency by better controlling press results, takes the human subjectivity out of the QA process, and relieves the pressure of finding and hiring highly skilled operators. It’s designed to remove extra tasks while setting a repeatable standard process for pre-media and trade shops, producing high-quality, consistent plates with limited skill set.

Beyond its ease of use, Print Control Wizard allows users to set printing conditions based on their existing inks and tailored to their individual production workflow, ultimately reducing makeready and streamlining the flexo print operation. Print Control Wizard is an important tool for the flexo printing industry to stay ahead by producing smaller, higher-quality print runs.
Ellerhold Aktiengesellschaft was facing quality issues on its large-format posters, also known as mega lights or classic billboard posters, the most popular indoor and outdoor advertising medium in Germany. The firm’s printheads caused visible bands, often on large areas of flat color. To stay relevant in a highly competitive environment, Ellerhold Aktiengesellschaft needed a reliable solution and turned to Global Graphics’ PrintFlat technology to start a calibration workflow for its printing device to produce uniform output covering the entire poster width. Now the company follows a simplified process where staff upload scans to Global Graphics online inkjet press calibration service. Automatically the company receives corrected calibrations, allowing the firm to have print runs with the best quality.

PrintFlat software corrects banding and non-uniformity in inkjet output that happens because of manufacturing variations within and between printheads or after they are replaced in the field. Banding, also known as the inkjet smile or frown, is chronic on areas of flat tints, such as the blues of a sky. This makes the print output unacceptable to press vendors and their customers, leading to financial losses. That’s because a significant percent of jobs, depending of the market, cannot be printed digitally because of banding issues.

PrintFlat creates customized calibration based on press measurement, which is installed into the ScreenPro screening engine. This directly corrects the presses. By adjusting the density within, ScreenPro, PrintFlat creates uniformity across a print bar. Also by automating the process, it allows for closed-loop correction, meaning there is no effect on jetting stability or head
lifetime, ink pressure, and timing/drop speed variation. Companies see immediate results. Businesses can have very fine granularity because the software addresses every nozzle separately on any head while making previously unacceptable print heads acceptable. It saves the time and cost of building and maintaining a press. PrintFlat can also be accessed via an online portal and businesses can upload a scan of the print bar to a website via a user account. PrintFlat creates corrections that can be applied directly to the presses.

To correct undesired effects people generally have had to tweak the head voltages, but that is a hands-on and time consuming task that doesn’t easily lead to the desired results. The main advantages from PrintFlat are that it is quick to apply, saves money, and can be used in any workflow.

This is the second InterTech Technology Award in successive years for Global Graphics. Last year the company received an award for SceenPro screening engine that can mask imperfections in output from high-speed inkjet presses.

Judge’s Comments

“Global Graphics has developed a fantastic idea that is well executed with significant impact on the industry.”
As customers become more savvy, many of them worry about using UV inks with photo-initiators or any high-risk air pollutants. That’s why many companies turn to HP PageWide technology for their needs for corrugated packaging and display with high graphics for short, medium, and long run on either coated or uncoated media. Companies using HP’s digital corrugated press have reportedly found clients asking for the safety of water-based inks. This digitally printed corrugated packaging is providing an opportunity for brands to take advantage of sophisticated and high-quality color graphics for product marketing and supply chain cost efficiencies.

With the HP thermal inkjet technology, printers can deliver vibrant graphics and offset quality for packaging for food, pharmaceuticals, cosmetics, and infant care products that need sensitive and safe storage. That’s because HP developed the PageWide A30 and CV150 true water-based inks specifically for the corrugated packaging and display market. HP PageWide true-water based inks do not have any UV reactive elements, contain no hazardous air pollutants, and have low volatile organic compounds (VOCs). This leads to a variety of health and safety advantages. What’s more, the inks have no perceptible smell, which is often important to clients who worry that a strongly smelling ink might affect the product. As they are odorless and absent of UV-reactive properties, no additional barriers are needed for packages of sensitive items, such as food and personal care.

HP’s water-based inks and the HP thermal inkjet printheads are designed as a complementary system to achieve the highest levels of performance, reliability, media versatility, and cost savings. The stringent UL ECOLOGO® certifies that the HP PageWide true-water based inks adhere to specific requirements and meet several multi-attribute, lifecycle-based criteria regarding human health and environmental consideration. And HP has fulfilled the Intertek Guidelines for the Safe Use of Printing Inks, offering safety requirements that comply with global regulatory and industry guidance including the Swiss Ordinance, Nestle Guidance FDA, EU Framework, and others. Corrugated packaging
converters and brands can benefit from HP PageWide print recyclability (validated by PTS Labs in Germany) as a mean to support a circular economy strategy.

Clients report being drawn to the HP PageWide True Water-Based Inks because it offers them and their customers’ peace of mind when using digitally-printed packaging for products in which contamination or even the perception of it would raise huge liability concerns. “Knowing that the HP True Water-Based ink is 100% food safe allowed us to concentrate on additional benefits our print supplier could offer,” said Andrea Fedrizzi, marketing manager of Melinda SCA, an Italian cooperative of apple and cherry producers.
When Vistaprint looked to improve their color control process, they defined an ambitious target for reducing production overhead and costs while improving on color performance. Color control was high on Vistaprint’s agenda given its vital impact on both efficiency and quality.

The company wanted to adopt a fast and reliable method that would not only provide consistent color for B2 formats but also have automation features. The solution also needed to maintain the same stringent tolerance levels their customers had come to expect.

With HP PrintOS Color Beat, Vistaprint was able to replace its offline color process control software entirely. Teams from HP Indigo and Vistaprint worked together to stress test and perfect the solution. Prior to Color Beat, the company relied on traditional offline color process control software which was time-consuming and often caused inconsistent color readings.

Color control integrated directly in the HP Indigo press provides new and exciting opportunities. Custom color targets that match Vistaprint’s needs ensures color uniformity and consistency on the full circumference of the printing drum. With HP PrintOS Color Beat, Vistaprint uses color process control automation features on all its latest model HP presses, saves on press operator time and enjoys highly consistent and accurate color measurements.

HP PrintOS Color Beat harnesses the cloud to monitor and capture the color status of HP Indigo presses in an efficient, hands-off manner. Color Beat orchestrates
numerous internet-enabled HP Indigo presses in tandem to provide real-time color quality information and insights at any time, in any location. It supports B2 formats, allowing for press color standards to be consistently, simply, and reliably met. It also offers real-time color status reporting to press operators and overall fleet reporting to production managers.

Time-consuming color tracking and measurement problems transform into a process that is so simple and efficient that it takes two minutes or less. Color quality information is immediately delivered through an intuitive web interface accessible from any location—including mobile access.

An inline spectrophotometer records color measurements from the press in between printing jobs, while data is stored, analyzed, and maintained in the cloud to provide immediate reports, including heat maps and historical information. Color Beat also provides API-enabling integrations with third-party applications.

Color Beat can be configured with default settings but can also be tailored for the specific needs of a business. What’s more, Color Beat can optionally pause printing when detecting issues and offers intelligent, data-driven insights to the operator to correct color issues. Users define customized charts to print with customized color management specs and analyses with specified quality criteria and tolerances.

Judge’s Comments

“Want assurance that your targeted color will be automatically maintained across a fleet of presses? This does it!”
With the rapid adoption of digital presses for labels, cartons, and corrugated boxes along with a growing demand for personalization—as well as the need to find a way to reduce the cost of producing multiple flavors, languages, or other options—package printers have needed a better solution for variable data print preparation and output than existing offerings. After years of development, Hybrid Software has released HYBRID VDP, a self-contained, easy-to-use, variable data printing answer to these new challenges.

HYBRID VDP is a new option for Hybrid’s PACKZ native PDF editor. It changes text, images, barcodes, colors, and other elements linked to variable data sources, producing an optimized file for fast printing on all digital presses. The VDP Prepare tool is included as a standard component of the native PDF editor and can be used to turn any PDF package or label design into a VDP design simply by indicating which elements are dynamic and linking them to the data source. It can place variable objects in different shapes and colors. It prepares displays in all iterations of the design and features special tools for quality assurance. A viewing option even allows operators to review the largest piece of content, to be sure that it fits in the design field. Once the graphics are VDP ready, the VDP Execute module is used to prepare an optimized PDF that is ready for digital output.

HYBRID VDP products are applied at the prepress stage—not in the pressroom—eliminating the upfront template creation that slows down other VDP options. Significant operator time is saved, as there is no need to build templates for variable data files, the common practice. The optional module—VDP Execute—allows users to produce a printable file on PACKZ locally or on HYBRID CLOUDFLOW for additional computing power. This provides flexibility so that as a company’s use of VDP grows, so can its computing power.

This solution is easy to learn, allowing printers to keep variable data work in-house rather than sending it to outside providers.
outside. A tool that’s easy to implement and helpful in eliminating errors, HYBRID VDP has been tested with the most common digital presses available today.

Even adding a simple QR code or variable element can slow printing speeds significantly. By moving VDP to the prepress stage, HYBRID VDP keeps printers’ expensive digital presses running and making money, not waiting for variable data files that are generated on the digital press front end while the press sits idle.

Judge’s Comments

“It makes personalized packaging easier by cutting processing time immensely.”
Even the most efficient printer’s workflow often bottlenecks at the guillotine cutter station, since only one or two people know how to operate the cutter. With the pressure of getting jobs done on time and without costly errors, finding and keeping experienced cutter operators is difficult—and if the operator is out sick or on vacation, work will just pile up since no one else can step in. The VRCut™ software, integrated into select Triumph cutters, helps eliminate that skill and time bottleneck. A partnership with Lytrod Software and MBM Corporation, the VRCut integrates prepress PDF creation software with a Triumph Cutter-connected visual guidance system that also automatically controls the back gauge. The VRCut software automates the operator workflow by creating an efficient cutting process from start to finish, allowing operators of any experience level the ability to cut with confidence on select Triumph cutters.

VRCut’s two included software modules—Impose and Controller—bridge the gap between design and finishing. Designers can easily use VRCut Impose to transform artwork into PDFs laid out specifically for optimized cutting on the VRCut-enabled Triumph cutter. The software places a template barcode and unique visual markers that facilitate an automated cutting process. The VRCut Controller module scans the document barcode and automatically displays the operator guidance system, connecting directly to the cutter for automatic back gauge movement and provides a full step-by-step visual, audio, and text interface for the operator.
The VRCut™ solution transforms the traditional cutting workflow, allowing operators to confidently cut by providing precise instructions. Once a cut is made, VRCut Controller moves the cutter back gauge and displays exact instructions for what action to take next, such as paper rotation, discarding of scraps, and placement of stacks on the workbench for future steps.

VRCut™ Ready Triumph models 5260, 6660, and hydraulic models 5560 and 7260 are the first cutters with VRCut software fully integrated and come with a complimentary one-year license.

Operators of any experience level can use a VRCut™ Ready Triumph cutter accurately and efficiently without lengthy training or ramp up programs, allowing printers and businesses to increase operation speed and efficiency while reducing the possibility of cutting errors that require additional press time and cause missed delivery dates.
The FLEXCEL NX Ultra Solution provides plate makers with another way of producing KODAK FLEXCEL NX Plates. The solution offers solvent-free, VOC-free, water-based processing that allows printers to create a press-ready plate in less than an hour. The FLEXCEL NX Ultra Solution removes disadvantages and challenges that have plagued aqueous plate-making solutions for the last 25 years.

Traditionally, aqueous flexo plate solutions suffered from a buildup of unexposed polymer and debris that weren’t easily dissolved or suspended in water, creating challenges for plate makers and printers alike. Miraclon’s new and innovative technology avoids the rapid buildup of photopolymer debris that causes frequent processor cleaning and has made aqueous plate-making solutions inconsistent and uncompetitive in the past. Utilizing a unique plant-based processing agent, the KODAK FLEXCEL NX Ultra Solution enables better conditions for plate makers, delivering a process that’s easier to handle and a cleaner environment. Debris cleaning can add additional hours of downtime to the prepress stage. Miraclon reports that normal washout times of competitive aqueous systems are twice as long as with the FLEXCEL NX Ultra Solution, averaging 14–21 minutes versus 7 minutes.

Plate makers can create more than 32 finished plates per shift, a considerable increase compared to the amount of plates per shift that thermal or solvent processes can achieve. The ability to turn a plate in less than an hour means that when a plate on press needs to be switched out, the wait time is much shorter than an average solvent plate, meaning less downtime on press and higher productivity overall.

Clients and brand owners working with printers utilizing FLEXCEL NX Ultra technology receive quality graphics with consistent, reliable performance. They also experience additional flexibility to make last minute design changes thanks to the ability to get plates on press faster.

The KODAK FLEXCEL NX Ultra Solution combines quality print performance with water-based processing to deliver a press-ready plate quickly, cleanly, and consistently in a high-volume production environment. The judges agreed that this technology will be the catalyst for more printers and pre-press providers to convert to aqueous platemaking.
Judge’s Comments

“Revolutionary! This is the first time water wash has been at this level...a significant time saver!”
When Heeter—a firm that produces direct mail and other data-rich printing for the retail, education, and gaming industries—was looking for colors that popped and needed to provide quality printing media to these markets, it turned to the RICOH Pro VC70000 inkjet press. The extended color gamut inks available for the platform and its ability to print coated papers without pretreatment allow the firm to harness the vibrant color needed to serve their current clients and win new ones. What’s more, Heeter loves the speed at which it now prints its products.

The RICOH Pro VC70000 uses Ricoh printheads to produce 1,200 by 1,200 dpi resolution with uncoated, offset coated, inkjet treated or inkjet coated papers that range from 40 gsm to 250. This allows for vivid image quality without slowing production. With print speeds up to 492 feet (150 meters) per minute on a maximum 20-inch (508 mm) print web width, producing almost 130,000 A4 letter impressions per hour, businesses can produce high volume, tight turnaround orders, which are a staple of modern print shops. Yet, the high speeds do not come with a sacrifice in quality. The Pro VC70000 uses unique, Ricoh patented dryer technology, which speeds up drying capabilities, allowing for faster print...
speeds and higher ink limit. By using small-diameter heated rollers to “iron the paper,” the Pro VC7000 almost eliminates the wrinkles that sometimes develop in lighter weight or offset-coated papers. It also employs fluid-chilled cooling rollers, and high precision monitoring tracks temperature to ensure cooling occurs properly for quick turnarounds that don’t sacrifice image quality.

The Pro VC70000’s groundbreaking introduction of traditionally offset-associated media to a continuous feed inkjet platform, without pretreatment, empowers printers to produce high-quality products, such as glossy catalogues and magazines. The new Ricoh inks offer as much as a 40 percent savings on paper costs by allowing for support of offset coated papers and untreated papers, among others. Lower water in the inks reduces color bleed, and the exclusive formulation allows for the ink to remain at the surface of uncoated papers while allowing for better adhesion to offset coated stocks. This also means the ink remains more durable and is scratch and fade resistant.
Take flight.

The RICOH Pro VC70000 Continuous Feed Inkjet Press

Extended gamut inks and advanced drying technologies help you do what others can’t — print on offset coated papers with no priming or post-treatment. Achieve more ink coverage. Colors. Media choices. More ways to set your business apart with greater productivity and profitability. Serve new customers and new markets with the powerful digital capabilities that position your business as a leader.

Get a free copy of our 32-page Lucerne | 2019 Landmarks book*. See the quality this system brings to commercial print and graphic arts applications. TakeaLookatRicohProduction.com/AmazingTechnology

*One book per name and address. Offer available while supplies last. U.S. addresses only.

Awarded the Printing Industries of America 2019 InterTech™ Technology Award for the system’s print quality and ability to print a wide range of commodity grades with no pre-treatment.
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Grow your digital production with a wide range of corrugated applications – including food-safe and packaging for sensitive products.

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Tilia Phoenix 7.0
Tilia Labs Inc.

Tilia Phoenix 7.0 from Tilia Labs is a modular software application that offers an open-application programming interface (API) for planning and imposition. It utilizes artificial intelligence to make production more efficient for all print sectors, including packaging, labels, wide-format printing, and commercial sheet and web. The InterTech judges said it is one of the best applications of AI for the printing industry that they’ve seen. Combining planning and prepress functions, Phoenix integrates into any workflow or business system to reduce prepress planning time while automating tasks. And, it optimizes media usage while reducing post-press issues. Phoenix’s Imposition AI module powers the software by using smart machine-learning algorithms to manage the production workspace, evaluate possible alternatives, and arrive at the best results. Imposition AI finds solutions that traditional software simply cannot discover. Return on investment occurs in months or weeks as companies see immediate time savings, fewer print runs, and diminished materials cost and waste.

When Inland Packaging was looking for ways to improve its overall efficiency in prepress planning especially for gang runs, the company turned to tilia Phoenix from Tilia Labs. Thanks to the software, jobs that previously took nearly all day can now be completed in only a few hours. The prep department loves the ease with which they can use PDF output to create the plates needed for jobs without manually imposing artwork. In addition to saving time, tilia Phoenix has helped automate Inland’s processes both upstream and downstream so that customer orders and artwork can be imported directly into the software, reducing the number of mistakes that would happen with manual entry. Even distribution has benefitted thanks to barcode capabilities that help sort combo jobs into the right boxes.

Phoenix also uses a unique, highly-optimized PDF processing engine, which can analyze 20 GB of artwork files while exporting layout plans 15 times faster than other options. This allows for the ability to feed an HP Indigo...
Judge’s Comments

“Real AI used at an appropriate point and in an appropriate way. Game changing in that you could submit a design and it could go right to print without anyone else touching it!”

50000 digital press at its highest web speed, preparing jobs for shortest roll lengths and supporting inline and near-line finishing of flat work or bound products.

Relying on an open API means that customers and third-party vendors can easily integrate with any system while automating almost every area of production. Users can benefit from unique choices of implementation options, providing flexibility and seamless transition.
2019 InterTech Candidates

PureFiltration
Baldwin Americas

HP Indigo Colorful Metal
HP Indigo in Collaboration
with Vistaprint

HP SmartStream Collage
HP Indigo

Rollem Insignia Series
Rollem Intl.

Xerox® Ultra Lightweight
Stock Printing Kit
Xerox Corporation

PersonalEffect
StoreFlow Version 10
XMPie

X-Rite eXact® Auto-Scan
X-Rite
PureFiltration

Baldwin Americas • Lenexa, KS • www.baldwintech.com

Baldwin Americas’ Pure Filtration removes process contaminants like ink, paper lint, and other ingredients from the returning dampening solution, which allows printers to maintain the highest possible quality during the production process. Before Pure Filtration, the only solution available to printers was to completely dump the dampening system. This costs time and money for print operations. Enter Pure Filtration, a cross-flow filtration technology that improves the overall performance of the press. It works for commercial web, newspaper, digital printing, and semi-commercial printing.

Unlike other dampening-cleaning systems, Pure Filtration is low-maintenance and environmentally friendly. It doesn’t require any consumables (like filter mats or bags), and the automatic thermal, chemical cleaning developed and patented by Baldwin Americas reduces bacteria in the press. Pure Filtration has a touch display with clear functions and detailed information. It promotes sedimentation, which creates a clear phase, then filters the dampening solution to its almost original clean quality. This then is returned back into the circulator. It can be used on press widths up to 117 inches (2,960 mm) and speeds up to 56 feet (17 meters) per second to flush out ink and paper ingredients.

Pure Filtration creates less physical waste than other filtration systems and costs less too. It requires less supervision from operators, freeing them up for other important tasks. It also saves printers considerable filter costs and machines hours.

HP Indigo Colorful Metal

HP Indigo Colorful Metal produces colorful metallized effects on B2-size media. The technology was refined and perfected through a collaboration between Indigo, Kurz, and Vistaprint.

Colorful Metal uses the HP Indigo 12000 ElectroInk black as a digitally printed adhesive that bonds foil to a substrate through the KURZ DM-LUXLINER®. Colorful metallic effects are achieved when reinserting the digitally foiled sheets to the Indigo 12000 and directly overprinting the foil with CMYK inks. Previously, registering the CMYK overprint to the foil was time consuming and labor intensive, to the point of being uncontrollable due to reinsertion challenges such as paper handling accuracy, paper deformation, and other issues.

HP Indigo Colorful Metal is a very accurate, image-based, sheet-by-sheet reinsertion solution for B2-size sheets. It registers the overprint to the foiled image across the sheet using a “fiducial marker” system. The process is all digital and dynamically monitors and corrects overprint color registration for every single sheet. Colorful Metal uses on-press registration cameras combined with a new algorithm to scan foiled markers at all four corners. The software then compensates as necessary to produce exact image registration on the foiled image across the entire B2 sheet.

Colorful Metal is a fully digital process enabling short runs as well as variable data applications, eliminating make ready time and waste. As such it enables PSPs to offer more premium possibilities to customers at a faster turnaround time.
2019 Candidates

HP SmartStream Collage
HP Indigo • Ness Ziona, Israel • www.hp.com

SmartStream Collage (HP Collage) is part of the HP SmartStream Designer suite for variable design printing (a software plug-in for Adobe InDesign or Illustrator CC 2019). Collage builds upon HP’s Mosaic product, which introduced the possibility of doing mass customization in design, including millions of one-of-a-kind print applications, automatically.

With Collage, brands, agencies and PSPs can have more ways of creating unique and variable graphics. Collage can be applied to any HP Graphics printed application, like labels, corrugated, folding cartons, commercial, and flexible packaging.

Unlike Mosaic, which begins with a pattern, HP Collage allows designers to start with individual design elements (such as images, logos or letters) for maximum control over their brand identity. With Collage, brands have maximum control over their design elements and can control frequency of repeating elements, rotation, scaling, and more. Collage is compatible with other HP SmartStream VDP solutions, including variable text, barcodes, and even Mosaic.

Collage allows users to control the scattering frequency of elements in a defined area. With the “slider” bar in the GUI, users can preview designs after making adjustments to see how changes will affect outcomes in real time. Because the processing is done on the Cloud, HP Collage does not require a dedicated server. It keeps functionality and response time high and does not diminish DFE performance. With features like “shuffle colors,” users can maximize design possibilities by changing the colors of any element. Collage will then make a randomly-generated, multi-colored pattern using those elements.

Rollem Insignia Series
Rollem Intl. • Anaheim, CA • www.rollemusa.com • www.insigniadiecut.com

The Insignia Series is highly customizable. It is available in four sizes: 20” x 15,” 20” x 20,” 24” x 30.” and 24” x 24.” With two cylinder configurations, customers can choose the series that works for their operations. A single magnetic configuration provides an ideal platform for straight die cutting and kiss-cutting. The dual magnetic configuration, using paired male/female dies are ideal for die cutting, scoring, and embossing for larger projects like packaging. Each system is equipped with a waste stripping unit to remove the skeleton from the finished product. Customers also have a choice of three delivery systems: a fast-moving conveyor, a high capacity receding stacker, or a receding bin stacker for efficient card product collection. These customizing options allow printers to expand their offerings within their budget and capabilities. The Insignia Series allows printers to do profitable work in-house instead of sending it out to larger outfits.
The Xerox Ultra Lightweight Stock Printing Kit for the Nuvera® Production Printing System has the lightest stock weight at the maximum sheet size, opening up the growing book market and more. The kit has components that are installed in the Xerox Nuvera print engine and on the production stackers so that that mono pages can be printed with quality and speed without sacrificing productivity. The Ultra Lightweight Stock Printing Kit gives users the opportunity to print paper down to 30 lb. text (44 gsm), at 12” x 18” (305 mm x 457 mm). Ultra lightweight paper has the tendency to roll or dog-ear at high speeds; this kit has patented new tech that includes both hardware and software components to keep sheets flat, resulting in high-quality image transfer and flat sheet stacking.

Lightweight paper opens up new print on demand markets as shipping and mailing costs are also reduced, making each job more attractive for a customers’ overall budget. This makes Xerox’s kit an attractive medium not only for cost-conscious applications, but also for any printing that needs to be lighter or thinner for storing, folding, and binding. The Xerox Ultra Lightweight Stock Printing Kit creates greater opportunity in book printing, from trade books to religious texts to other manuals. For those customers already printing short-book runs, the ultra-lightweight stock allows them to expand their offerings to digital print without sacrificing productivity as the Xerox Nuvera prints up to 314 images per minute. Even more than books, customers can print pharmaceutical prescription inserts, financial prospectus materials, manuals, handbooks, and other applications with the Xerox Nuvera productivity, quality, and economics required in today’s competitive print market.

PersonalEffect StoreFlow Version 10

PersonalEffect StoreFlow Version 10 is a web-to-print product for launching e-commerce sites and marketing portals for print service providers. PersonalEffect balances printers’ desire for a customized online print ordering system with the need for a customer-friendly front-end experience. It has HTML5 responsive design, the ability to customize the store look and feel to that of the operation’s branding, easy reordering, order approval, and more. Because StoreFlow works on mobile, customers can use any device to customize, review, and approve their orders. They can also track order status from their mobile device.

StoreFlow allows users to create a storefront with custom branding in minutes. Administrators need not have any programming skills to control main elements like font, logos, buttons, and banners. Companies can create a branded store concept for prospective clients in minutes and make changes immediately, making for a faster and more cost-effective sales cycle. Once a site is active, the e-commerce workflow is automated and streamlined from order to fulfillment for the administrator and consumer.

StoreFlow Version 10 can be extended and integrated into other systems. With plugin technology, companies can add custom functionalities like CRMs, tailored fulfillment workflow, and more.
Combine the technology of the eXact with advanced automation and you have the X-Rite eXact Auto-Scan. The device can be used in automatic scanning mode or removed from the scanning track and used as a handheld spectrophotometer. Able to accommodate both 29-inch and 40-inch presses, small and mid-size printers alike can benefit from the flexibility of the Auto-Scan.

The eXact can measure true M1 Part 1 (as opposed to a simulation), one of the only handheld devices on the market with such a capability. It can also capture M0, M1, M2, and M3 readings simultaneously. The tool also acts quickly; it takes less than 15 seconds for the eXact Auto-Scan to measure a 40-inch color bar. This reduces makeready by 30% and reduces the potential for human error.

The eXact Auto-Scan offers a variety of tools to assist press operators right from the device. Operators can create customized standards and color libraries directly on the device and use comprehensive color data immediately through Bluetooth technology to make quick adjustments. The eXact Auto-Scan can stand on its own or be integrated with other third-party solutions to expand ink key and quality control to create a closed loop solution.

The simultaneous M-mode measures density and color data on set targets to ensure more accuracy. The Auto-Scan is able to capture all data in one scan, helping printers to increase productivity and accuracy, reduce costs and wastage, and deliver dependable products to customers.
Check Off Your Compliance To-do List with EHS Verify

EHS Verify, the newest program from Printing Industries of America’s Environmental, Health, and Safety Affairs, provides a customized audit process that helps printing companies strengthen their EHS programs to prevent workplace injuries, avoid environmental and safety incidents, and reduce the risk of OSHA and EPA fines.

EHS Verify includes:

- Pre-audit
- On-site visit
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- Re-audit

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2020 CONFERENCES

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January 11–14, 2020
San Diego, CA
PRINTING.ORG/COLOR

TAGA ANNUAL TECHNICAL CONFERENCE
March 15–18, 2020
Oklahoma City, OK
TAGA.ORG

2020 CONTINUOUS IMPROVEMENT CONFERENCE
April 5–8, 2020
Columbus, OH
CI.PRINTING.ORG