

DRUPA 2016 Global Trends: Stay Connected with Antalis!



HP launched several updated versions of their HP Indigo systems as well as a few new sheet-fed and web-fed models for the Commercial Printing market and the Labels & Packaging market respectively.

Commercial Printing



HP Indigo 5900

The latest series 2 press (HP Indigo 5900) includes high-impact inks (white ink, fluorescent pink ink and transparent ink) and an on-press ElectroInk primer allowing synthetics and extra thick substrates up to 550 microns to be printed. The One Shot technology (all colour separations are accumulated on the blanket and transferred to the substrate in a single pass for perfect registration) also extends media capabilities to unique substrates including canvas, synthetics, lenticular, and metallised media.

It can print 68 A4 pages (4 colours, two-up) per minute.



HP Indigo 7900

The latest series 3 press (HP Indigo 7900), like the 5900, includes high-impact inks, the on-press ElectroInk primer and the One Shot technology. It can print 120 A4 pages (4 colours, two-up) per minute.



HP Indigo 12000

The latest series 4 press (HP Indigo 12000 – B2 sheet-fed) can print 4600 B2 prints per hour; it includes the new on-press ElectroInk primer and the one-shot mode that allows printing on canvas, synthetics, and metallised media and from 75 to 450 microns in thickness. This press also has upgraded paper sensors enabling white ink printing on transparent and dark coloured papers.

This press offers an improved resolution with 1600 dpi: High Definition Laser Array (HDLA) is a new high-definition writing head that doubles print resolution up to 1600 dpi (Available in 2017).



HP Indigo WS6800p

The HP Indigo WS6800p is the latest narrow web (34 cm wide) version based on the series 3 press. It is positioned for photo-book applications. The 317 x 980 mm printing area opens production possibilities for long format applications such as lay-flat books, long book covers and calendars.



HP Indigo 50000

The HP Indigo 50000 is the latest version of the series 4 (B2 width) web-fed press, featuring tandem engines and an oversized frame to allow B1 format (746 x 1120 mm or 10 A4 pages) duplex printing. This is a development of the HP Indigo 20000 which features one printing engine focused on packaging board applications.

Labels & Packaging



HP Indigo 8000

The HP Indigo 8000 is the latest narrow-web press designed for labels and packaging printing. This is a very productive labels press with a speed of up to 80 meters/minute in full colour and the Enhanced Productivity Mode that allows to use 3-colour printing to increase throughput in a significant way. The HP Indigo ElectroInk Premium White is an opaque white ink delivering up to silk screen opacity in single print process.



High-Speed Inkjet market

HP is also a major player in the high-speed web fed inkjet printing market with the newly renamed "PageWide" presses which have a width up to 106,7 cm wide; the new high-speed inkjet press HP T1100S is focused on corrugated cardboard printing.



HP 1100S

The HP PageWide Web presses benefit from the HP High Definition Nozzle Architecture (HDNA) that uses 2400 nozzles per inch native resolution and dual drop weight to deliver image details.

For all HP Indigo and HP PageWide Web presses: HP PrintOS

PrintOS is a print production operating system with a set of web and mobile apps to automate production; it is an open and secure cloud-based platform that is available anytime, anywhere.

Kodak



Kodak Nexpress ZX3900

The Nexpress ZX3900 is the latest version of the dry toner SRA3+ Nexpress range capable of printing spot colours and varnishes. This version supports thicker papers (up to 610 microns) and synthetic substrates ideal for packaging applications. It can also print a new opaque white toner and uses a multi-bit LED writing system that can lead to higher resolution and better colour matching.



Kodak Prosper 6000C

The Kodak ULTRASTREAM Inkjet Technology enables high resolution printing at a quality of 600 x 1800 dpi and speeds of up to 150 meters per minute on a wide variety of paper and plastic substrates. Commercial printing and packaging are the key market segments targeted by this press.

The ULTRASTREAM Technology will co-exist in the market along with KODAK STREAM Technology to offer different platform options, addressing the needs of each application.



Xeikon C3

As one of the fastest digital label presses on the market with printing speeds of 30 meters/minute, the Xeikon CX3 is 56% faster than any other press in the current Xeikon portfolio, making it the most productive digital press in its class.



Xeikon Trillium One (liquid toner)

The Trillium One is a liquid toner web-fed press with reels up to 500 mm wide running at up to 60 meters/minute. This press uses separate units for each one of the colours. The targeted applications are books, magazines, transactional and direct mail.



Konica Minolta bizhub PRESS C1100



MGI Jet Varnish



MGI iFOIL

The Konica Minolta bizhub PRESS C1100 was launched prior to DRUPA but what is new is the integration of MGI equipment (the MGI Jet Varnish and iFOIL) as part of the KM dry toner press finishing. Konica Minolta now owns 40% of MGI and the integration of their product offering was highlighted at DRUPA.



Konica Minolta AccurioJet KM-1

The Konica Minolta AccurioJet KM-1 B2+ inkjet press (585 x 750 mm) is now commercially available having been first shown at DRUPA 2012. Unlike most of the other sheet-fed inkjet machines, the KM1 is a UV inkjet system with a UV curable ink that is able to print on a wide range of standard uncoated papers (up to 0,6 mm) and synthetics. It can print 3000 B2+ sheets per hour (simplex) with 1200 dpi.



Konica Minolta bizhub PRESS C71cf

Presented at Label Expo in 2015, the KM bizhub PRESS C71cf is dedicated to the small to medium volume label printing market; it can print on glossy or mat papers as well as on polypropylene films. Its max width is 330 mm and it can print 13,5 m/min.

OKI



OKI Pro 9000 Series

At the high end of its portfolio, OKI has a low cost printer that is able to print white and spot varnish toner. The new improved Pro 9000 series can print white and gloss in the SRA3 format and can print the white toner under the colours in one pass with better registration.

RICOH



Ricoh Pro VC60000

The Ricoh Pro VC60000 is a high-speed web to sheet water based inkjet press that can print at 150 meters/minute. The machine is equipped with a flood coated primer and a post print fixer to allow it to print on standard coated and uncoated papers (from 40 to 250 g/m²). The main applications are books, manuals, brochures, personalized marketing collaterals and direct marketing. It can print up to 120 000 A4 images per hour. Depending on the resolution that is targeted, the Ricoh press can print from 50 m/min at 1200 x 1200 dpi up to 150 m/min at 600 x 600 dpi.



Ricoh Pro C7100 & C9100

Ricoh was also showing the latest dry toner presses; the Ricoh Pro C7100 can print white and gloss toner. The Ricoh Pro C9100 can print on paper up to 400 g/m².

Canon



Canon DreamLabo 5000

This unique inkjet press is fully dedicated to the photo book market; its main features are: 7 dye-based inks and one-pass printing thanks to the seven full-width fixed print heads (Canon FINE print head technology). It can print 40 prints per minute (10 x 15 cm photos). DreamLabo 5000 offers automatic double-sided printing with speeds of up to 1000 A4 double-sided pages per hour. The optional Digital Photo Image Enhancement System automatically deals with imperfections such as red eye and colour cast.



Océ VarioPrint i300

The Océ VarioPrint i300 is a high-speed inkjet B3 (353 x 500 mm) press; it can print at 300 A4 images/minute or 8700 A4/hour (duplex); its ColorGrip option is an inkjet primer that should allow to print standard offset papers. A patented quick drying system, plus reduced set-up and finishing times and a short start-up period ensure maximum end-to-end productivity.



Océ ImageStream 2400

The Océ ImageStream 2400 is a high-speed inkjet web-fed press (width 520 mm); it can print 160 m/ minute, resulting in an equivalent of 2154 A4 pages per minute. The main applications are books, brochures, magazines and catalogues. Its new ink chemistry enables printing on a wider range of media including coated and uncoated papers and lightweight papers.



Océ ColorStream 6000 Chroma

The Océ ColorStream series consists of four family members, ranging from 48 up to 127 meters/minute in full colour and optional 150 meters/minute in black and a print width of up to 540 mm and paper width up to 560 mm. It can be configured with up to 6 colours for monochrome, full colour and special inks to add extra value by using like MICR or security inks. The inks have a higher pigment content in order to give more vibrant colours without ink show through on lower weight papers.



Canon Voyager

The Canon Voyager is an aqueous inkjet B2+ press prototype; the technology is similar to the Landa one with the aqueous ink jetted onto an intermediate transfer belt and then this heated belt transfers the ink onto the paper. The only difference with the Landa system is that the Landa presses use a smaller pigment size in the ink which is reputed to give much higher ink density and better adhesion to substrates.



Canon imagePRESS C8000VP

Equipped with the same technology as the imagePRESS C10000VP, the C8000VP can print 100 images/minute (colour and B&W). The range of applications is increased as it can print on media from 60 g/m² (uncoated) and 70 g/m² (coated) up to 350 g/m² as well as on various specialities such as synthetics.



Xerox® iGen® 5

On top of the 5th colour (Blue, Green or Orange) that extends the press gamut and makes it easier to match a wider variety of spot colours, the Xerox® iGen® 5 can also print matt dry toner. The option "thick stock" can print media up to 610 microns for the digital packaging market.



Xerox® Colour Press 800i/1000i

The update of the Xerox® Colour Press 800/1000 can now print gold and silver coloured inks as well as clear dry toner. A new server Xerox EX-P 1000i, developed by EFI is also available.



Xerox® Brenva™ HD

The new Xerox® Brenva™ HD is built on the Xerox® iGen® chassis ; it is a B3+ sheet-fed press running at 194 ppm (A4 single-sided) and uses the enhanced Kyocera KJ4B print heads. It can print on inkjet treated papers and on standard uncoated papers depending on the applications. The press is equipped with an in-line spectro-photometer that provides automation for press calibration and the creation of stock profiles. It also has an object-oriented colour management system to recognize text, graphics and images and optimize the image quality.



Xerox® Trivor™ 2400

The Xerox® Trivor™ 2400 press is based upon the Impika Compact press and is equipped with enhanced Panasonic inkjet heads running at up to 168 m/minute depending on print quality. The High Density (HD) inks perform across a wide range of media including standard coated papers; inkjet optimized media are also recommended for this press.



VariJET 106

The VariJET 106 is a B1 hybrid Xerox® inkjet press integrated with a KBA Rapida 106 offset press for printing aimed primarily at the packaging market. It will print 4500 B1 sheets per hour.

HEIDELBERG



Heidelberg Primefire 106

The Heidelberg Primefire 106 is a new B1 inkjet press developed in collaboration with Fujifilm on a Speedmaster 106 press platform. This press can print up to 600 microns board at 2000 B1 sheets per hour and its primary focus is folding carton printing. It uses the Fujifilm Samba print heads running water-based pigment inks and an in-built priming unit used in Fujifilm's JetSX press.

For the portfolio of dry toner presses, Heidelberg's Linoprint CP and CV digital printers have become Versafire CP and CV.



Landa and the Nanography® printing process



Landa S10

This single-sided NanoInk B1 format press (4 to 7 colours – resolution 1200 dpi) is designed for the production of folding cartons, POS and corrugated boxes. It can print 13000 sheets per hour – any substrate from 60 to 800 microns. With a crossover point of around 30 000 boxes, the Landa S10 is positioned as the digital solution for more than 50% of all packaging jobs.

Using the Landa NanoInk pigments, the colour spectrum achieved by the Nanographic printing process is wider than any other process and covers more Pantone colours than offset printing. The press is also equipped with a spectrophotometer in order to maintain colour consistency and print uniformity.

Landa S10P

This two-sided NanoInk B1 (1050 mm and up to 7 colours) format press is designed for commercial printing, direct mail, high-end magazines. It is positioned as the press offering the lowest Total Cost of Ownership of all digital printing solutions.



Landa W10

The Landa W10 is a twin-engine high-speed digital press (1050 mm) designed for the flexible packaging market.

The Landa W10P press targets the high-quality publishing market (magazines, journals, catalogs and direct mail) with a speed of 100 meters/minute.



Landa L50

The Landa Nano-Metallography L50 module is designed for integration into narrow web label presses. It allows high-impact metallization solutions for all types of metallized label jobs.

FUJIFILM



Fujifilm JetPress 720S

The Fujifilm JetPress 720S is a B2 inkjet press using aqueous pigment inks; it is equipped with a flood coat priming system and a nozzle block detection system (Samba printheads developed by Fujifilm Dimatix); the maximum format of the sheet is 750x530 mm; many coated and uncoated papers can be printed but the sheets have to be very flat and water stable. It can print up to 180 pages/minute.

SCREEN



Screen Truepress JET SX

The Truepress JetSX is a B2 inkjet press using aqueous pigment inks; it can print heavy weight coated, uncoated and creative papers. The maximum sheet size is 500x700 mm and the press can print up to 108 pages/minute.