

**Canon**

CANON SOLUTIONS AMERICA



CANON SEE IMPOSSIBLE



SHEET-FED

FULL COLOR

INKJET

HIGH VOLUME

RELIABLE

# OCÉ VARIOPRINT i300

INKJET INNOVATION WITH PURPOSE

Productivity | Versatility | Savings



Redefining inkjet innovation  
for productivity, versatility,  
and savings

## OCÉ VARIOPRINT i300

### REINVENTING SHORT-RUN INKJET PRINTING

#### Proven Océ inkjet technology combined with Océ VarioPRINT flexibility

Today's print market is evolving rapidly and print providers need to keep pace. The confluence of technology advances, changing markets, and business requirements place ever-greater pressure on being able to respond to changes in the market, and better serve the needs of customers.

The Océ VarioPrint® i300 sheet-fed inkjet press is the solution. It bridges the gap between the application flexibility and efficiency of sheet-fed presses and the economy and productivity of web-fed systems, without compromising quality. iQuarius™ technologies, a breakthrough in sheet-fed versatility and inkjet productivity, enable print providers to handle new and more diverse applications – and do so profitably.

As one of the first sheet-fed inkjet color production presses available on the market, it offers an attractive alternative between higher-cost, less flexible inkjet web presses and lower-speed, toner-based, cut-sheet printers. It also makes it possible to address new market segments productively and cost-effectively.

#### Growth applications

The Océ VarioPrint i300 press is ideal for service bureaus and transactional printers; direct mail houses; book and manual printers, and large in-plants. It's also well suited for commercial printers looking to increase flexibility, expand application mix, take on more digital work, or leverage inkjet versatility.

- Transactional printing and Transpromo in true white paper workflows
- Books and manuals, combining black-and-white and color on one platform
- Direct mail and variable data printing
- Collateral materials, including brochures, sell sheets, mailers





## Reliability and productivity

Productivity is one of the core attributes of a successful printing operation, and here the Océ VarioPrint i300 press excels. Today's market is about much shorter runs, along with a greater number of jobs with less set-up time between them – and we've designed a press that meets those requirements.

Seamless workflow integration, reduced set-up and finishing times, and near-instantaneous drying ensure maximum end-to-end productivity. As for uptime, iQuarius technologies ensure the rock-solid reliability of the Océ VarioPrint i300 for fast, uninterrupted production. The press features built-in self-maintenance and diagnostic systems with automated corrective actions to maintain optimal quality, as well as "sense and support" predictive maintenance system for complete peace of mind. In short, the Océ VarioPrint i300 production printing system is disruptively efficient, thanks to a streamlined workflow, maximum job flexibility, and workhorse productivity.



## AN INNOVATION IN INKJET

The Océ VarioPrint i300 bridges the gap between higher-cost, less flexible inkjet web presses and lower-speed, toner-based, cut-sheet printers, making it possible to address new market segments productively and cost-effectively.

## Think about ink

The Océ VarioPrint i300 uses water-based pigment inks, offering several advantages:

- Print on a wide range of media, including offset uncoated, offset coated, inkjet-treated and inkjet coated papers
- More economical than oil-based inks, with lower running costs on many applications
- Excellent resistance to fading
- A sustainable, eco-friendly printing solution, with no hazardous compounds or elements
- Built-in robustness for optimal inline or offline finishing

## WHAT IT MEANS FOR YOU

With the Océ VarioPrint i300, you can now consolidate sheet-fed black-and-white, highlight color and full-color digital workflows into one production printing system, allowing you to:

- Take on more jobs
- Manage shorter runs
- Handle variable data projects
- Offer diverse media options

# OCÉ VARIOPRINT i300

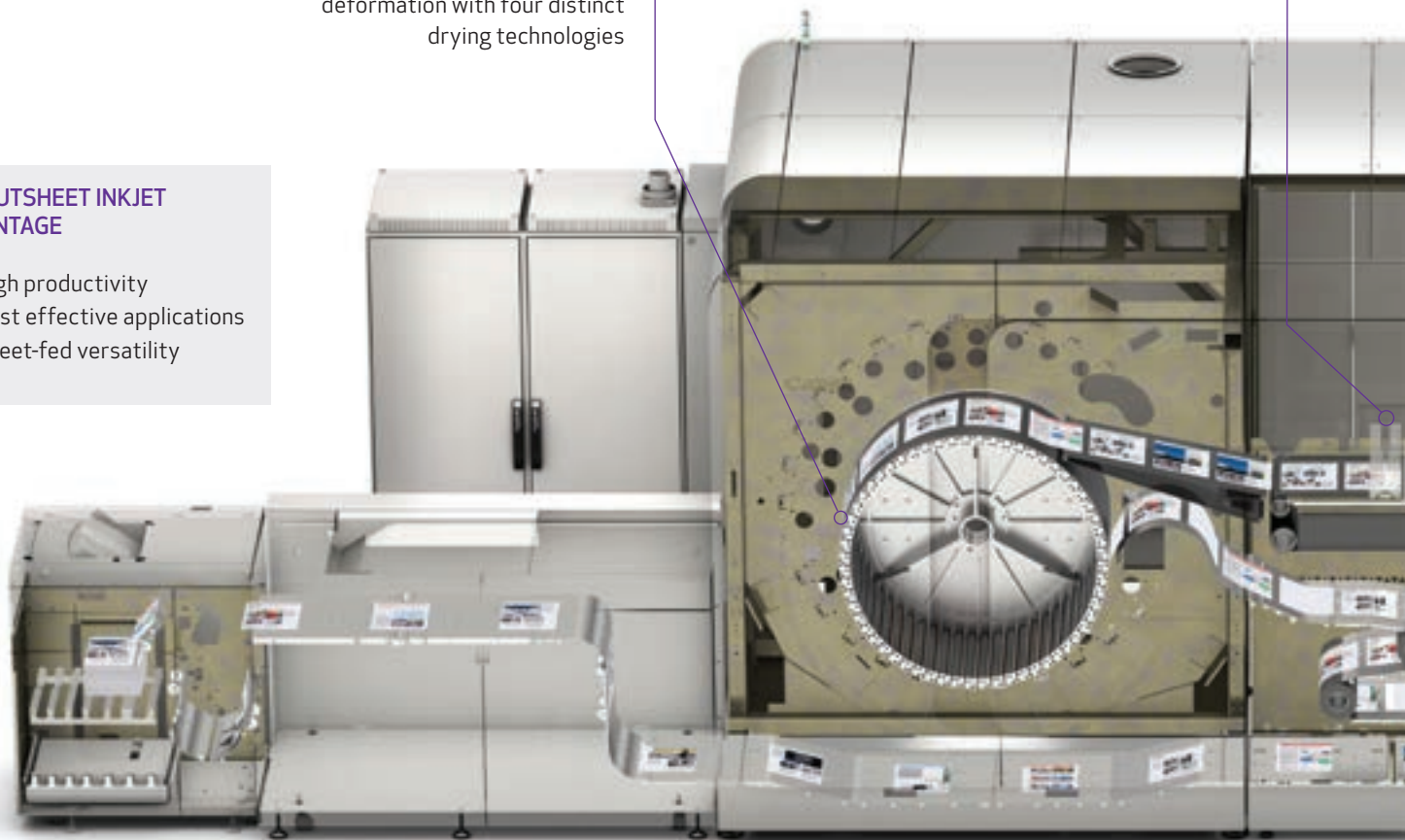
BREAKTHROUGH IQUARIUS INNOVATIONS

Inline quality control to detect and automatically compensate nozzle failure for maximum quality

Instant drying at moderate temperatures to minimize paper deformation with four distinct drying technologies

## THE CUTSHEET INKJET ADVANTAGE

- High productivity
- Cost effective applications
- Sheet-fed versatility



## ENJOY PEAK PRODUCTIVITY

- Production speeds of up to 294 letter images per minute
- Up to 8,800 letter sheets per hour
- Up to 10 million letter-sized images per month
- Maximum paper capacity: 13,800 letter sheets from 12 trays (9,200 letter sheets from 4 trays is standard)
- Standard sheet size of 12.6" x 19.2"
- Maximum sheet size of 13.9" x 19.7"
- DFD interface for connection to inline finishing options

## IMPRESS CUSTOMERS WITH SUPERB IMAGE QUALITY

- 1200 dpi perceived image quality with multilevel droplet modulation
- Océ drop-on-demand, piezoelectric
- Water-based pigment ink
- Accurate front/back registration
- Nozzle Failure Detection and Compensation



# BENEFIT FROM INKJET INNOVATION AND PROVEN TECHNOLOGY

- Flexible architecture enables future expansion
- Print on a wide range of standard (coated) offset and inkjet media
- Built on proven technology assets:
  - Océ VarioPrint® 6000 pre- and post-processing technologies
  - Océ ColorStream® inkjet print head technology
  - Océ PRISMAsync™ controller technology
  - Océ PRISMA workflow integration

Print heads, based on proven Océ ColorStream inkjet technology, deliver 600 x 600 dpi with 1200 dpi perceived image quality

Precision sheet control by using vacuum suction to hold sheets flat on a seamless, stainless steel paper transport belt

A sentry unit inspects, detects, and purges sheets with imperfections without impacting production

Proprietary non-deforming pigment inks deliver a high-quality, robust printed product

**OPTIONAL COLORGRIP FEATURE** enables printing on a wider range of media, including uncoated and offset coated, expanding the application range.

Climate controlled and vacuum fed, paper input modules support true "all media from all trays" capability

## MAXIMIZE UPTIME

- Efficient workflow automation
- Automated quality inspection
- Automated print head and nozzle maintenance
- Key operator maintenance
- Secure remote service capability
- Advanced predictive maintenance

## IMPROVE YOUR BOTTOM LINE

- Accelerate offset-to-digital print migration
- Upgrade monochrome to higher-margin color
- Consolidate monochrome and color work
- High-speed output at lower per-page cost
- True white paper workflow solution

# OCÉ VARIOPRINT i300

## PRINT QUALITY YOU CAN SEE

### Expand your media choices

The VarioPrint i300 optional ColorGrip feature enables printing on a wider range of media, expanding the application range. ColorGrip enhances the image quality on papers not designed for inkjet, giving these papers a print quality rivaling inkjet treated stocks. Consider the quality of an inkjet treated stock with the paper price of an uncoated offset commodity stock. ColorGrip also expands the media range to include some coated offset stocks.

Now print jobs can include a variety of coated, uncoated and treated stocks and the printer automatically adjusts the print parameters for each media type on a sheet-by-sheet basis.

### Quality from start to finish

The Océ VarioPrint i300's innovative inkjet printing system incorporates a range of proven Océ technologies to enable premium quality printing on a diverse range of media – ensuring optimum accuracy and appearance for each application. It also stands out for its ability to reproduce a wide color gamut on different substrates.

Quality control is intelligent, automated, and continuous. A "sentry" unit in the press automatically inspects media

at full speed at a point just before the print process begins. Any sheets with detected imperfections are removed and diverted to a top tray – without interrupting production. To ensure that output quality is maintained during printing, print head nozzles are also monitored. Nozzle failures are automatically compensated for, giving you consistent premium inkjet quality on all media.

Fully automated maintenance routines ensure that the VarioPrint i300 is always prepared to print whenever you need it. A combination of cleaning procedures to include, purge and wipe and wet-tissue cleaning are employed to automatically ensure optimal nozzle condition, saving considerable operator time over manual maintenance routines.

The press features Océ-developed drop size modulation technology that precisely delivers up to 80 million drops per second. Each ink droplet can be one of four sizes, resulting in smoother color gradations usually achieved only on higher-resolution presses.

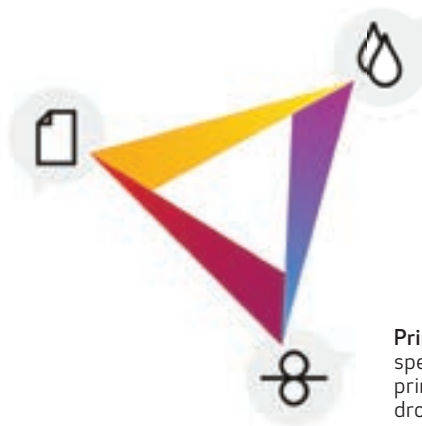
### Versatile and flexible media handling

The press can handle a range of diverse media, such as offset uncoated and offset coated, inkjet-treated and

#### PRINT QUALITY

Inkjet technology enables high quality prints on many media, if the print process, ink and substrates are well attuned to each other. The Océ VarioPrint i300 intelligence and innovations ensures a balanced quality and cost result on any chosen media type.

**Paper**  
coating  
grammages  
surface structures  
surface tension

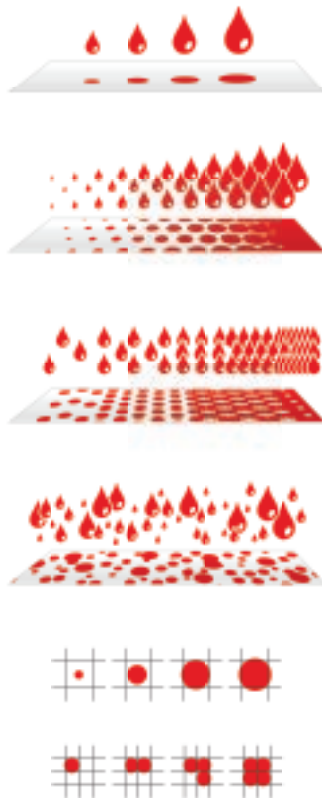


**Ink**  
viscosity/wetting  
layer thickness  
drying behavior  
colorants

**ColorGrip**  
apply where needed  
image based  
layer thickness

**Print process**  
speed  
printhead dpi  
dropsize  
head stability  
pre-treatment  
drying

Print on a broad set of standard offset and inkjet media – on sheets up to 13.9" x 19.7"



### DROP SIZE MODULATION

Océ-developed drop size modulation technology offers four droplet sizes, that result in 600 x 600 dpi quality with smoother color gradations and the same visual perception of a 1200 dpi system

inkjet coated materials, with papers for different applications easily loaded within or between jobs. Air-separated, vacuum suction-based feeding ensures reliable input from the high-capacity paper trays, as well as smooth switching between different substrates. A seamless stainless steel print belt moves sheets at high speed through the system, keeping them securely in place and flat during transport. The belt also maintains

a consistent distance between media and print heads, ensuring precise ink placement and optimal print quality.

### Workflow that puts your team in control

With the Océ VarioPrint i300, you'll benefit from a completely automated workflow and highly intuitive operation. Combined with Océ PRISMA® workflow software, it provides maximum efficiency and productivity. PRISMA is an end-to-end software suite that covers every stage in document production – from creation to print management to finishing and tracking delivery.

PRISMAsync print operation management optimizes productivity with a high-performance server, media-driven workflow, and the ability to schedule up to eight hours of production in advance. The controller puts your team in control with an efficient, clearly defined task-based workflow that distributes and localizes key tasks – enhanced with helpful operator alerts, such as signals to load new media or consumables.

The PRISMAsync controller's intuitive interface works seamlessly with other Canon output devices, enabling workflow alignment and minimizing operator learning curve. It uses proven Océ Scaleable Raster Architecture (SRA) controller technology to integrate with Océ inkjet web-fed presses, making it possible for the Océ VarioPrint i300 press to serve as a reprint device for other Océ inkjet devices. Advanced color management capabilities are built in to ensure consistent and accurate color fidelity.

With PRISMAsync workflow, you benefit from increased predictability and flexibility, accelerated job turnarounds with fewer errors – and a smooth, highly productive workflow that can become the foundation of a growing business.



**CANON SOLUTIONS AMERICA** unites the power of Océ Production Printing Systems with the strength of Canon.

**Look to Canon Solutions America for all your production needs:**

Enterprise Printing in the office and corporate print room

Large Format Printing of technical documentation, signage, and display graphics

Production Printing for marketing service bureaus and graphic arts

Business Services for document process outsourcing

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