Impremia IS 29s

29-inch Sheetfed UV Inkjet Digital Printing System

Specifications
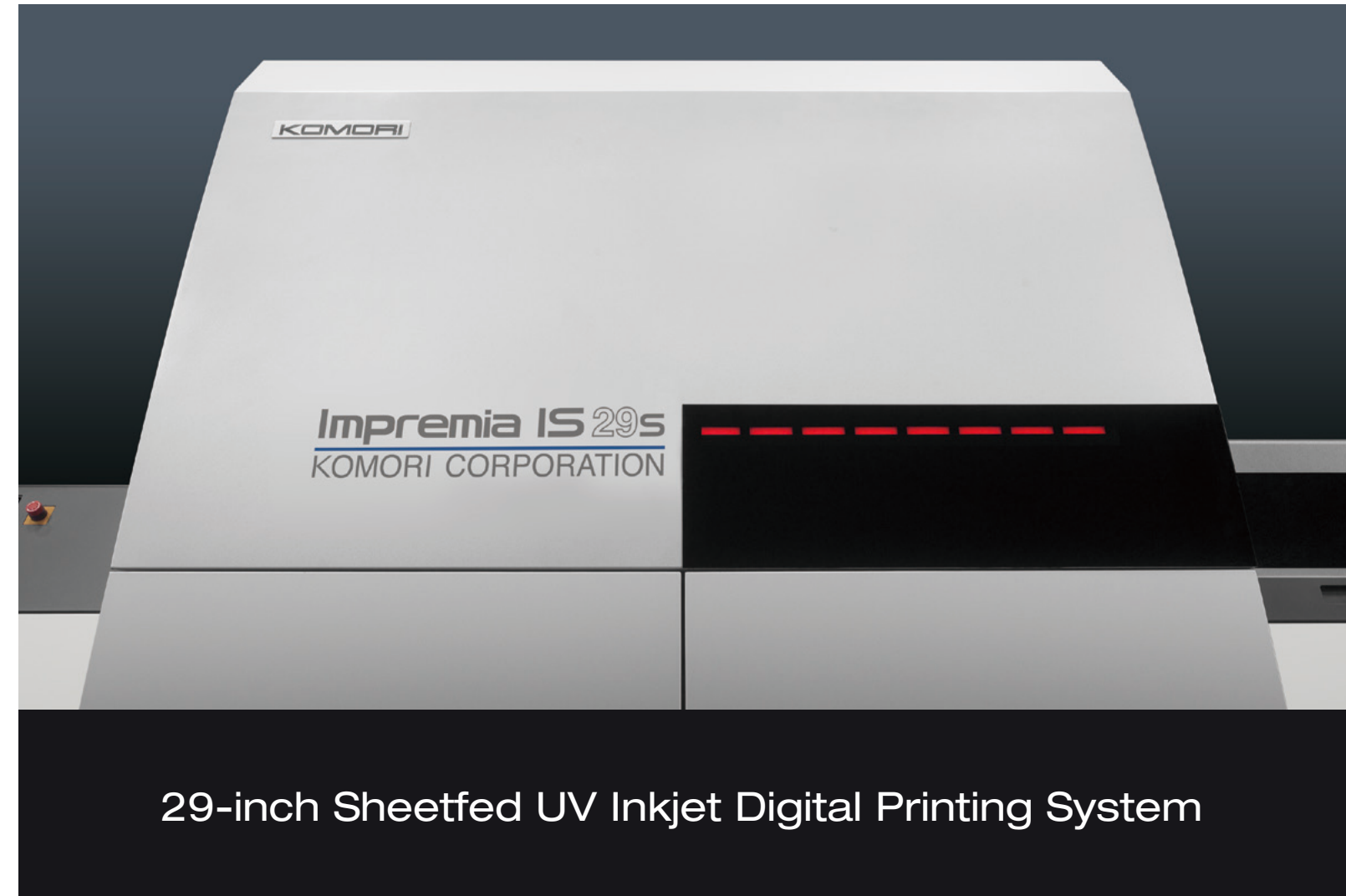
Impremia IS29s (29-inch Sheetfed UV Inkjet Digital Printing System) Specifications

Model		IS29s
Ink		UV Ink
Number of colors		4
Resolution	dpi	1,200 x 1,200
Print speed	sph	3,000 (single-sided) 1,500 (double-sided)
Max. sheet size	mm (in)	585 x 750 (23 x 29.5)
Max. printing area	mm (in)	575 x 735 (22.6 x 28.9) (single-sided), 575 x 730 (22.6 x 28.7) (double-sided)
Sheet thickness	mm (in)	0.06-0.6 (0.0024 - 0.024) (single-sided), 0.06-0.45 (0.0024 - 0.018) (double-sided)
Dimensions	mm (ft)	W 2,967 (9'9") x L 5,368 (17'7") x H 2,335 (7'8")
Machine weight	kg (lb)	8,100 (17,857)

*Machine dimensions and weight exclude peripheral equipments.

*Performance and values may differ depending on specification. Komori reserves the right to change specifications for the purpose of product improvement.

29-inch Sheetfed UV Inkjet Digital Printing System

Impremia IS 29s

29-inch Sheetfed UV Inkjet Digital Printing System

Introduction

The Impremia IS29 professional-spec UV inkjet digital printing system has evolved once more—now introducing the advanced Impremia IS29s.

In addition to the full range of highly-received basic features—such as suitability with a wide range of printing stocks and sheet thicknesses, stable high print quality thanks to its superior tone reproduction and register accuracy, and instant curing/one-pass double-sided printing for immediate finishing—a variety of options to further increase usability and create added value are also available.

The Impremia IS29s pushes the boundaries of digital printing, meeting the needs of not only commercial printing, where short runs of many different printed products and short turnarounds are required, but also those of package printing, with increased productivity and efficiency.

Features

- **No need for any precoating or special paper, printing can be done on same paper as offset printing**

- **High level of front-to-back registration accuracy only available from an offset press manufacturer**

- **Instant curing and the ability to start finishing immediately due to UV ink**

- **Can color match with offset printing*1**

- **Wide color gamut capable of reproducing a wide range of special colors**

  Pantone V3 coverage: **77.6%** (1,867 colors), DIC coverage: **83.7%** (1,280 colors)**2**

- **0.06-0.6 mm sheet thickness range in single-sided printing**

- **Manage operations with KP-Connect**

Contents

Double-sided, one-pass

Precoat not required

Any paper type

Sheet thickness*3

0.06-0.6
mm (in)

Pantone V3 coverage (1,867 colors) **77.6%**

DIC coverage (1,280 colors) **83.7%** *2

*1 With use of K-ColorSimulator2 (KCS-IS Connect).

*2 Results of reproduction with Kodak Spotless Software. Coverage=ΔE00<1.5. All colors produced on OK topcoat, using ΔE2000 formula.

*3 Double-sided: 0.06-0.45 mm.

KOMORI

Impremia IS29s
KOMORI CORPORATION

The Pinnacle in Digital Printing Presses— Komori's Expertise in Offset Printing Makes it Possible

High-quality, high-productivity configuration and internal mechanics

The Impremia IS29s performs double-sided, one-pass printing with a level of register accuracy only possible from an offset press manufacturer. The Impremia IS29s boasts high productivity, able to output 3,000 sheets per hour of up to 585 x 750 mm size, at a resolution of 1,200 dpi, to rival offset printing. Furthermore, the Impremia IS29s offers sheet path technology that capitalizes on Komori's previous range of experience in offset presses, and can handle a full array of paper thicknesses—from thin paper that poses challenges for previous inkjet printing to thick stock for packages—all on a single machine. As a digital printing press inheriting the unique advantages offered only by Komori, the Impremia IS29s delivers a level of quality and productivity perfectly suited for use as a main production machine.

KHS-AI: Next-generation Integrated Control System
Platform for integrated press controls and linking of softwares and systems
A revolutionary productivity enhancement system for digital printing presses.

KHS-AI Main Functions
- Machine operation
- Linked to the RIP system
- Operating records and maintenance data
- Self-diagnostics
- Job management
- Air presets

KP-Connect
Komori Solution Cloud

CLOUD

Printing company — Support — KOMORI

KP-Connect Basic
Cloud-enabled: whenever, wherever.
Easy visualization of print operating status
KP-Connect Basic is a service to increase productivity by enabling visualization of print operating status.

KP-Connect Pro
Scheduling and workflow automation for all presses
As an interface connecting MIS with printing presses, KP-Connect Pro digitizes and streamlines process management. The scheduling function can enable job automation between prepress, press, and postpress workflows and resolves bottlenecks between the processes.

Impremia IS 29s
KOMORI CORPORATION

Also efficient for short runs
High pile delivery + sampling tray
High pile delivery up to 630 mm, plus separate sampling tray for efficient short run prints.

Provides stable quality printing
LED UV, inline sensors
LED UV and UV inks allow for fast curing, for immediate postpress processing to meet short turnarounds. Inline sensors offer nozzle compensation for stable quality printing.

Reproduce vivid colors
Inkjet heads, UV ink
Can reproduce vivid colors with only a 4-color process, opening up new added value for customers. Also compatible with a wide range of substrates, as UV ink does not require precoats or specialized paper.

High front-to-back registration accuracy
Perfecting mechanism
Gripper-gripper paper transfer achieves high level of front-to-back registration accuracy, to rival offset printing.

Highly accurate, stable paper transfer
Triple cylinder
Grippers and air suctioning ensure highly accurate paper transfer.
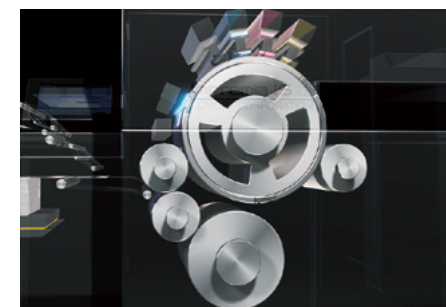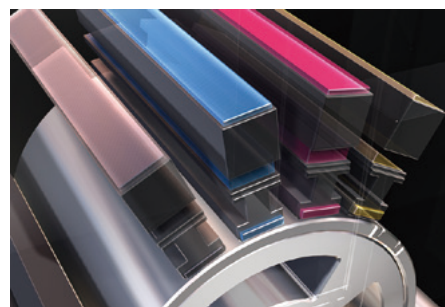
Compatible with wide range of sheet thicknesses
Feeder
Large-pile feeding of stacks of up to 900 mm. Equipped with same feeder head, feeder board, front gauge and side gauge as offset presses. Capable of stable, continuous printing on thin to thick paper.

Sheet thickness range: 0.06-0.6 mm*
Compatible with a wide range of paper types, and thicknesses of 0.06-0.6 mm (for single-sided printing). Jobs such as short-run package printing can also be handled by the Impremia IS29s, alone.
*Double-sided printing: 0.06-0.45 mm

Color Reproduction to Expand Your Business

Wide color gamut also improves operating efficiency for offset presses

The Impremia IS29s has a wide color gamut, capable of matching a variety of special colors with a four-color process. Printing can also be directly performed from RGB data to perfectly reproduce colors on screen.

Transferring special colors jobs from offset to the Impremia IS29s improves offset operating efficiency and reduces the burden on workers.

Wide color gamut and special color reproduction

**Color gamut comparison/special color reproduction**

Color gamut includes the full Japan Color range, and is capable of reproducing colors from RGB data and of reproducing the majority of special colors. The Impremia IS29s covers 75% of Pantone (1,867 colors) and 80% of DIC (1,280 colors) colors at ΔE < 1.5, making it perfect for special colors used for packages.
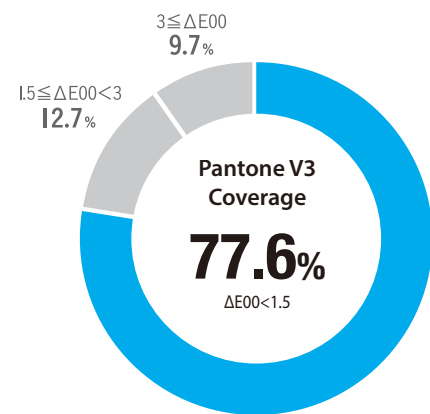
Color gamut comparison

2D comparison (IS29s / Japan Color / sRGB)   3D comparison (IS29s / Japan Color)
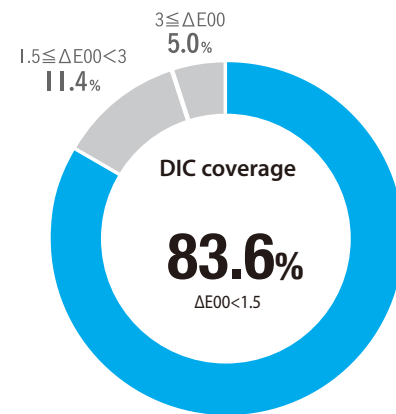
sRGB
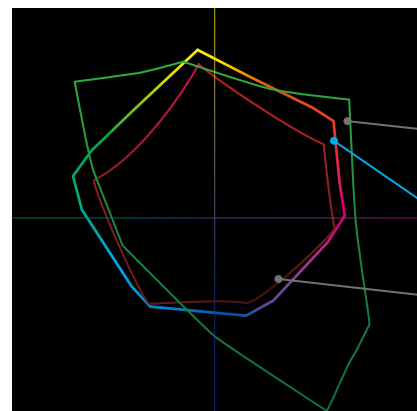
Impremia IS29s

Japan Color

Special color reproduction rate

3≦△E00
9.7%

1.5≦△E00＜3
12.7%

**Pantone V3
Coverage**

77.6%

ΔE00<1.5
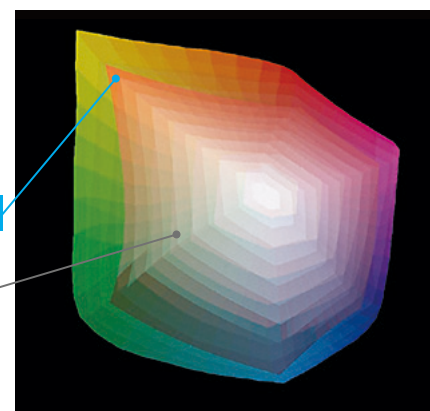
Of 1,867 colors, Impremia IS29s is capable
of reproducing over approximately 78%

3≦△E00
5.0%

1.5≦△E00＜3
11.4%

DIC coverage

83.6%

ΔE00<1.5

Of 1,280 colors, Impremia IS29s is capable
of reproducing over approximately 84%

*Results of reproduction with Kodak Spotless Software. All colors produced on OK topcoat, using ΔE2000 formula.

*The available color gamut may differ depending on paper used.

Better Lightfastness and Abrasion Resistance than Offset, with Exceptional Color Stability

The Impremia IS29s offers lightfastness and abrasion resistance exceeding that offered by offset printing, making it perfect for items such as outdoor posters and POP displays. It also offers exceptional color stability, meaning colors can be easily reproduced for repeat jobs. The ease of operation and ability to accurate reproduce colors without special training helps to alleviate growing labor shortages.

Better lightfastness than offset

Vivid, colorful printed items lose their lustre as time passes. The Impremia IS29s offers better lightfastness, in excess of that achieved with standard offset UV inks, and without discrepancies between ink colors.

Ink 100%	Y	M	C	K
Impremia IS29s	○	○	○	○
UV ink	△	△	○	○
Lightfast UV ink	○	○	-	-

- N/A △ Good ○ Very Good

Results of fade tests*

During fade tests, items were exposed to approximately one year's worth of ultraviolet rays. Discoloration (ΔE00) was calculated based on sensory evaluations and use of colorimeters.

Excellent abrasion resistance

The Impremia IS29s also offers excellent abrasion resistance, maintaining best quality longer for printed items that are exposed to external damage, such as outdoor posters and store POP displays.

Evaluation	Y	M	C	K
Impremia IS29s	○	○	○	○

Abrasion resistance results*

Printed areas were affixed in testing machines. Pressure was applied and blank paper was passed over the affixed area 50 times, and then evaluated with senses to determine how much ink had transferred.

Exceptional color stability

Stable printing with minimal color variation. Customers appreciate that the Impremia IS29s offers better stability than offset printing, capable of reproducing colors for repeat jobs even after a year or more has passed.

Colors for thumb indexes are also stable
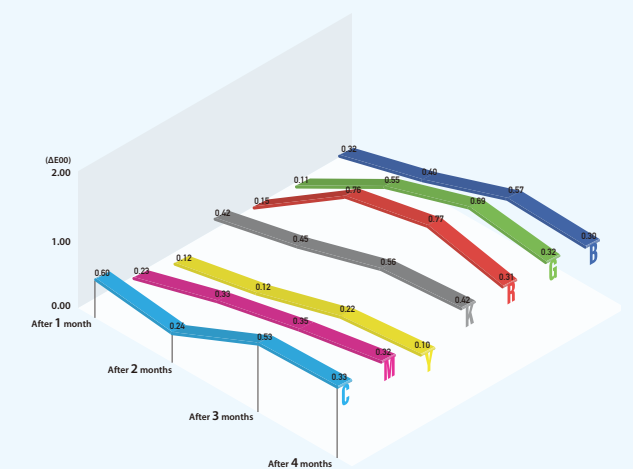
Color stability results*

Monthly fluctuation in CMYK (primary color) and RGB (secondary color). Results are shown for four months compared to first date of use.

*Results may differ depending on paper used.

*Figures show Komori measurements under specific conditions. No warranty is implied.

Komori's Vision: Offset-Digital Fusion

Minimal processes for the shortest turnarounds

The Impremia IS29s does not require plates, and with fast-curing UV ink, printed items can move straight to postpress after printing, making it an optimal choice for short runs and short turnarounds. Additionally, restacking is not required for double-sided one-pass printing, which not only greatly reduces workload, but also reduces waste paper, operating and other costs. With the addition of K-ColorSimulator 2, colors can also easily be matched with offset, removing color issues between digital and offset. By making the most of the different advantages offered by offset and digital, and dividing print work between the two, companies can reduce workload and greatly increase operating efficiency for the entire printing site.

Cost reduction results

Reduced costs and swift response with just-in-time

Because digital printing machines do not require printing plates or produce paper waste, allowing you to print what you need when you need it, they are more cost effective for short runs than offset printing presses. Furthermore, when printing additional runs of items originally printed on offset, the Impremia IS29s can use the same paper, making more effective use of space by removing the need to store unnecessary paper. As long as the paper and data are available, additional printing can be performed immediately, with short turnaround.

Increased offset operating ratio

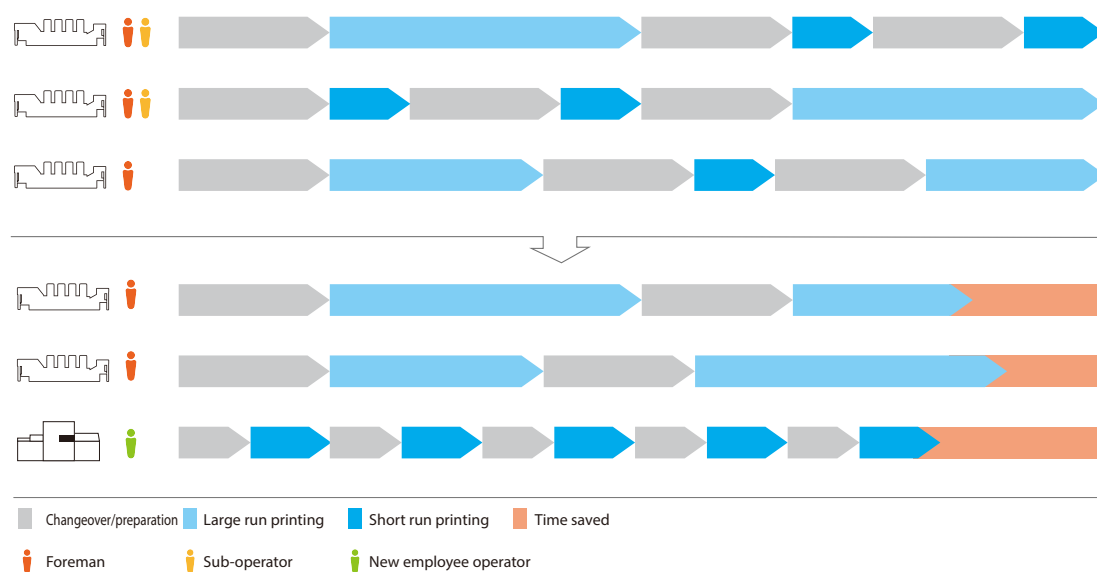**Transferring short run/special color jobs to the Impremia IS29s**

Transferring short run and special color jobs from existing offset presses to the Impremia IS29s offers many advantages, such as reducing the number of employees and work hours required.

Merits of transferring special color jobs

• Multi-page imposition for fewer passes when printing special colors
• Zero time required to create special colors
• Zero cleaning time required for special colors
• No space required to store special color ink drums

Comparison of short run aggregation

Comparing the same job and run sizes printed on three offset presses versus two offset presses plus the Impremia IS29s.
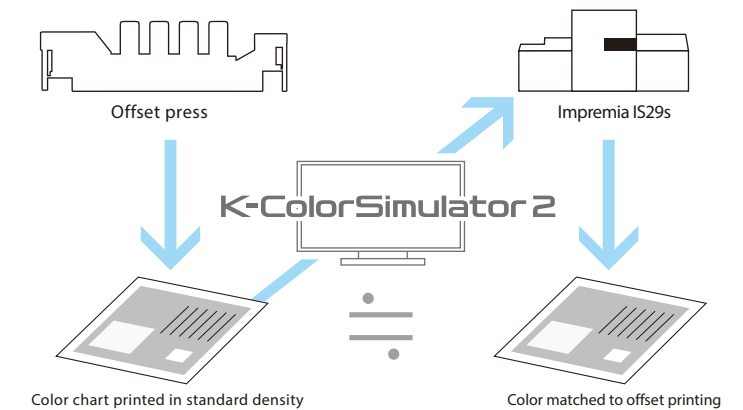

■ Changeover/preparation ■ Large run printing ■ Short run printing ■ Time saved

👤 Foreman 👤 Sub-operator 👤 New employee operator

Color matching with offset

K-ColorSimulator 2

Easy-to-use color matching with offset. There is no need for precoating or special paper, so printing can be done on the same paper as offset. Also excellent for proofing sheet printing and additional short runs after delivery.

* With use of K-ColorSimulator 2 (KCS-IS Connect).

Offset press   Impremia IS29s

K-ColorSimulator 2

Color chart printed in standard density   Color matched to offset printing

Workstyle reforms and eliminating labor shortage issues

Easy to operate, reducing number of employees required

Compared to offset presses, the Impremia IS29s is easier to operate. Even new employees can operate the Impremia IS29s, and operators can also oversee prepress, postpress and other machines at the same time. This helps to distribute multiple skills over a limited number of employees.

Simple maintenance for more effective use of time

There are only 6 to 7 daily maintenance tasks, in total, for the Impremia IS29s. Maintenance is finished in only about 20 minutes. This drastically reduces maintenance labor, compared to offset printing.

Offset press only

Offset press + IS29s
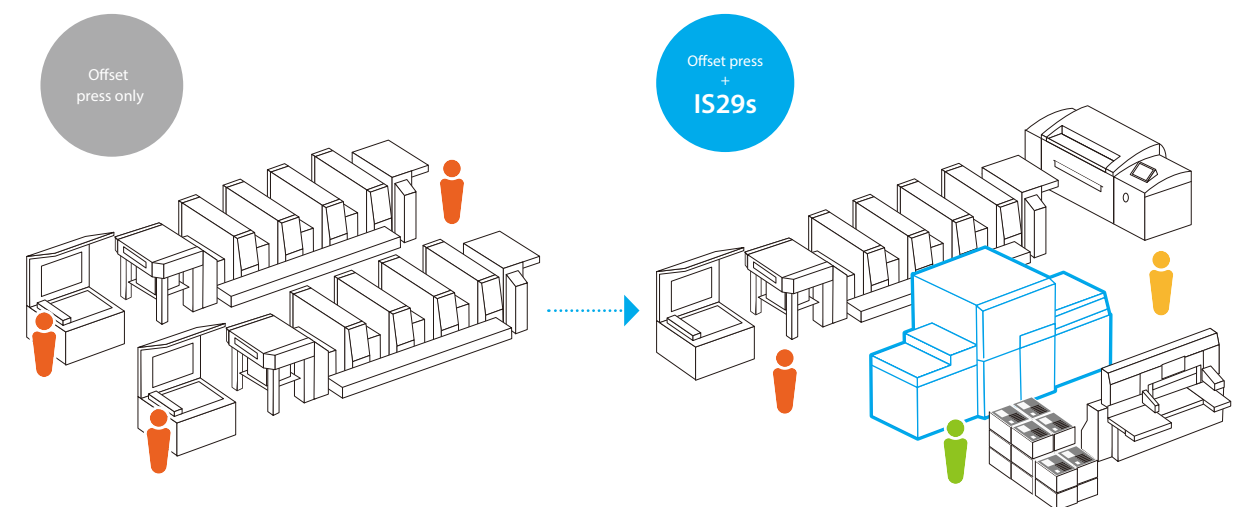
The Impremia IS29s Unearths New Possibilities in Digital Printing

Now prints on the widest range of substrates in its class, creating new business possibilities

Client demands come in all shapes and forms. Some clients even demand printing ideas they've never seen before.

In addition to high quality, high productivity, a wide color gamut and stable colors, the Impremia IS29s can also print on a wide variety of substrates, allowing printers to expand business and offer added value to customers. The Impremia IS29s is capable of not only full but also partial variable printing, making it perfect for items such a direct mailings, 2D barcodes and personalized coupons. A printing press flexible enough to satisfy your imagination and designs.

Package
Perfect for short-run and variable design packages. Also effective for special color printing and package prototype creation.

Posters
Can print vivid, eye-catching posters, as well as backlight film, in a wide color gamut. Also effective at reducing paper waste, as final printing can begin from the first sheet.

Cards
Can print on substrates such as polyester. Excellent for items that require durability, such as membership cards and pointcards.

Book covers
Prints effectively on colored paper, uneven embossed paper, and similar mediums demanded for novel, comic, paperback and other book covers.

Full variable and versioned printing
Can print elements such as numbering and 2D barcodes for direct mailings, tickets, coupons and more. Also offers excellent printing on PET substrates such as tack paper and clear file folders.

Letter size
Can print 6-per-side imposition for US letter size, whether one-sided or double-sided.

Photo books
Can print runs as short as one copy. Portraits or landscapes, the wide color gamut means colors can be reproduced, as seen on monitor.
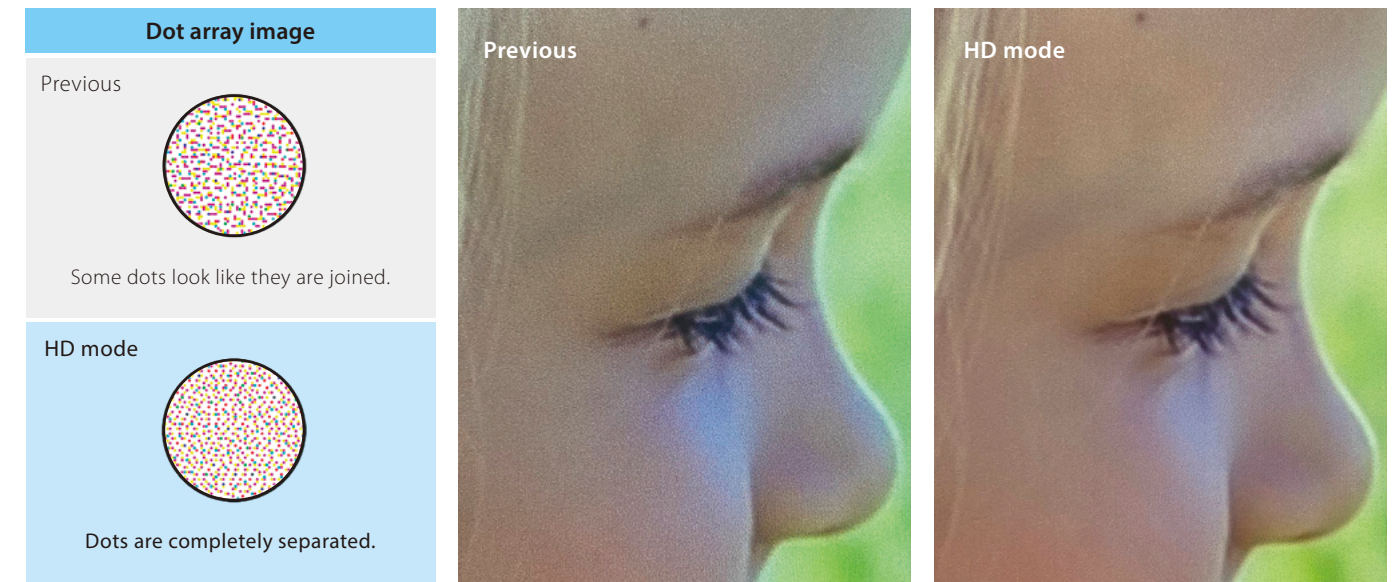
Optional Specs to Take Your Printing Even Further

Options for added value and convenience

HD mode
HD mode achieves smoother, higher quality output while maintaining the ability to handle a wide range of print media. Dot overlap has been minimized to improve graininess, improving the smoothness and color tone of skin, along with the texture of materials such as ceramic surfaces. This mode meets the high-quality requirements of the photo book and branded promotional materials markets, helping you to expand your business.

Dot array image

Previous

Some dots look like they are joined.

HD mode

Dots are completely separated.

Previous

HD mode

Tape inserter
A system for inserting tape between jobs or at specified page intervals. Increases production efficiency through smoother management of short-run jobs of many different printed products.

Compatibility with special papers[*1]
Now prints on the widest range of substrates in its class. Further broadens the scope of work through improved sensor sensitivity.
• White opaque (PET/PP/synthetic paper) • Colored paper/embossed/canvas • Metallic paper • Transparent/semi-transparent plastic

Dust-proof server rack
Computer hardware is enclosed in a dust proof environment. The air intake and exhaust is filtered to prevent the infiltration of dust and foreign matter reducing the risk of electrical problems.

Postpress interface[*2]
Interface available to directly connect the delivery apparatus to devices such as conveyors and postpress machines. This allows for inlining of postpress stages such as varnishing, blocking, trimming, folding and binding.

Pre-loader with trolley
Allows for offline paper piling. Paper can be replaced easily. Just set the preloaded cart into the feeder and remove the handle. Reduces the time required for changing trays. The carts allow anyone to transport paper easily. Use multiple carts for even greater convenience.

(2) To feeder   (1) Load paper

*1 Compatibility may differ depending on factors such as surface gloss, colors, etc.
*2 One example of postpress interfacing. Please inquire for more details.