



Inca Onset series

PRODUCT BROCHURE

Powerful UV flatbed inkjet printers
from Fujifilm and Inca Digital



The ultimate production flatbed

Since 2001 Inca Digital and Fujifilm have collaborated to build outstanding inkjet printers. Based on a thorough understanding of print applications we combine precision engineering with outstanding ink chemistry.

The powerful Onset has established itself as the leading UV flatbed platform for production of eye-catching display graphics at speed. Now hundreds of businesses worldwide are profiting from their investment in Onset.

Onset printers are built to deliver three things we know are important to print firms:

Business efficiency: Onset offers better efficiency and productivity, producing like-for-like print quality at higher throughput than any other UV inkjet machine.

Business development: Onset enables the production of high run length jobs which until now were not viable by inkjet.

Low investment risk: Onset is powerful enough to pay for itself in six months. As a business model it gives owners the opportunity to plan their business with much more confidence.





Onset series

The Onset series is built around two platforms that are both further configurable to meet your business needs.

Onset S

High quality at speed

For production of high volumes of high quality print on a wide variety of media. The 27 picolitre drop size provides versatile and productive printing of images where viewing distance is not critical.

- ▶ Applications: General in-store display graphics and signage, in-store FSDUs, outdoor signage
- ▶ Colour options: 4 colour, 6 colour lights, 4 colour + white



Onset Q

Outstanding quality at speed

For production of close-view, high-value images with lower volumes at near-photographic quality. Onset Q is the first UV flatbed of its kind with a 9 picolitre drop size and can reduce the per print cost of high-quality, low-volume images compared to other processes.

- ▶ Applications: In-store fashion/cosmetics type graphics, close-view display and signage
- ▶ Colour options: 4 colour, 6 colour lights, 4 colour + white



Built for long-term performance

Onset printers are the fastest in the world at like for like quality. The technology is world-leading: powerful linear motors and vacuum beds that can hold up to 80kg of media; full width printhead arrays and UV lamp systems allow almost instantly cured print; powerful handling systems ensure phenomenal productivity. Onset's print engine and fast moving vacuum bed are built on a very robust chassis which enables pin-point drop placement accuracy for billions of drops per second, all day, every day.

Onset is a long term investment. Inca engineering, Fujifilm chemistry and self-monitoring features ensure Onset printers continue to deliver consistent quality and speed for years. All Onset machines that have been installed since the first models were introduced in 2007 are still delivering the production speeds that were calculated at the demonstration. Long term reliability and consistent performance mean Onset can deliver the best return on investment.

Build quality Unbeatable uptime

Onset's concept and design is Inca's 5th generation of moving print bed technology. It takes known and understood systems and makes them better. It's designed to put drops of ink in the right place for stunning, vibrant results, at speed, time after time.

Fujifilm Dimatix printheads

Great definition at high speed

Spectra heads have proven their reliability in full production for many years. To get the best throughput from Onset, drop size and placement are precisely calculated to give excellent results at top speed.

Full-width printhead array

Textural banding eliminated

The print carriage spans the whole width of the print bed and doesn't scan across the media. Images do not suffer from textural banding and consistent print means the cost of rejected prints is reduced.

Full-width UV lamp system

Lower lamp settings, media doesn't warp

Onset has multiple UV lamps that allow for fast bidirectional print. The system can also vary the UV dosage and produce a range of print finishes from satin to gloss. Only Onset can produce a high speed, high gloss finish.

Service and support network

Your business depends on maximum uptime from your digital equipment. Inca Digital and Fujifilm recognise that your investment in cutting-edge technology needs to be matched by a support service that is customer focused, responsive and reliable.

Onset installations are supported by warranty, parts and service package options, tailored to best suit your business. Front-line support is available in every region using engineers certified by Inca's training facility in the UK, and Fujifilm and Inca continue to invest to expand their support base to maximise printer uptime.

Online assistance is available to help diagnose faults and resolve technical issues remotely, with minimum intervention.





Zoned vacuum flatbed

Quick set-up and switch between jobs

Onset has an accessible flatbed design for simple loading of rigid materials, with a best-in-class capacity of 80kg and maximum media thickness of 50mm. The vacuum table is divided into fifteen independent zones minimising the amount of bed masking required. Dual registration points ensure accurate and simple double sided registration.

Uvijet ink

Great mileage, perfect colour

Onset is fuelled by Fujifilm's Uvijet inks, which produce strong vibrant colours. Uvijet inks allow Onset to print directly to most rigid and flexible display materials.

Automation

High throughput, auto-stacking

Onset has a powerful, efficient handling system designed to feed it as fast as it works, but it still quickly allows the operator immediate and direct access to the bed and registration points. Short run and one- or two-off jobs can be done in between long, automated runs for ultimate flexibility.

Simple operation

Get up and running quickly

With a simple front-end interface and straightforward maintenance routine, Onset is designed for maximum uptime. As part of the initial installation, operators receive basic training that enables them to run and maintain the machine efficiently.

Intelligence for peace of mind

Intelligence features enable Onset to monitor its own condition to maintain optimum performance, print quality and minimise printhead deterioration or damage.

Intelligent cleaning

Sensors monitor the amount of UV light exposure around the print carriage and control the cleaning cycles in the daily schedule to maintain optimum performance and printhead life.

Intelligent print quality management

Inca's iNozzle intelligent nozzle mapping system maintains print quality even if printhead nozzles are missing or deviating which would otherwise be seen as very visible print defects.

Vacuum bed monitoring

Vacuum level monitoring will stop printing if the pressure is too low to hold the material securely. This helps to prevent possible damage to the print carriage when printing porous materials.

Intelligent material height detection

The material height detection system detects lift across the material and ignores small defects in the surface which do not pose a risk to the print carriage, reducing unnecessary stoppages and downtime.



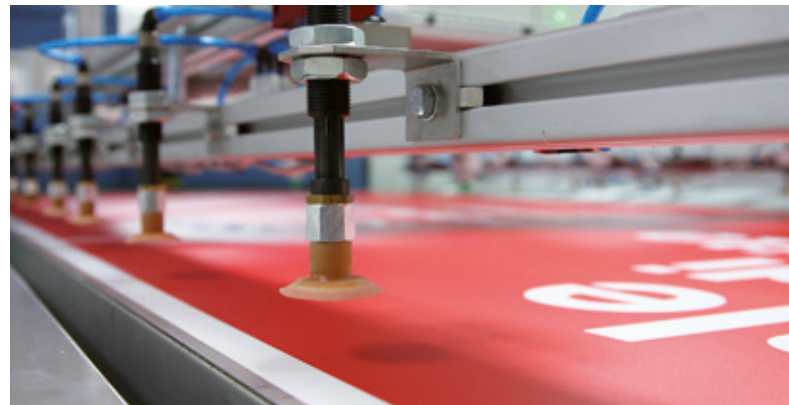
Handling for any kind of job

Inkjet's rapid progress as a print technology mirrors the increase in viable run-length compared to other methods. With Onset, the crossover point is up to seven or eight hundred individually customisable prints on virtually any display media.

From high-value short-run prints to conventional long runs, Onset can handle all sorts of print jobs and materials in a working day, quickly and efficiently.

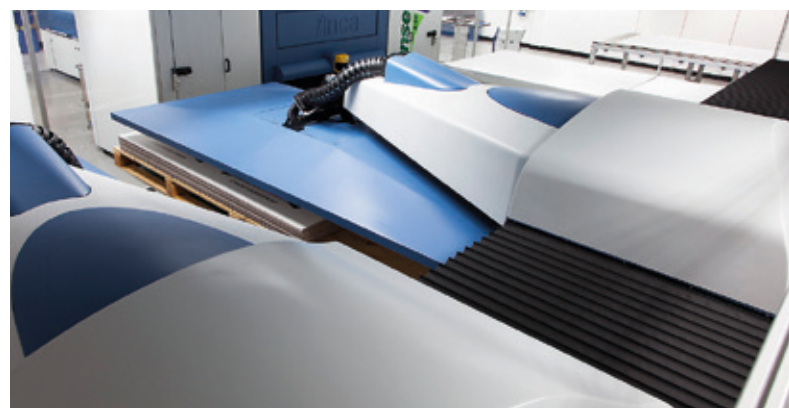
Short-run jobs can be printed with manual loading and take-off, but as an Onset S40i can finish two full beds of print in less than a minute, a fast and powerful handling system is vital if Onset is to perform to its full capacity for longer runs.

Onset's handling system options can be configured to best suit your production environment.



3/4 handling

The 3/4 automation system lets you print single sheet, multiple sheet or double sided print in registration. The operator loads material onto a preload table and the system takes over the rest, stacking it on a pallet for easy removal of the printed stack. Best of all, the system allows the operator immediate, direct access to the bed and registration points for quick switch between manual and semi-automatic work.



Corrugated board handling system

The fully automatic handling system is designed for difficult materials like unconditioned corrugated board. Vacuum-to-vacuum transfer ensures precision handling, from the robotic arm pickup, to placement on the print bed and stacking of printed board. When combined with Uvijet inks for corrugated board, this system enables Onset to be used for cost-effective production of corrugated displays.



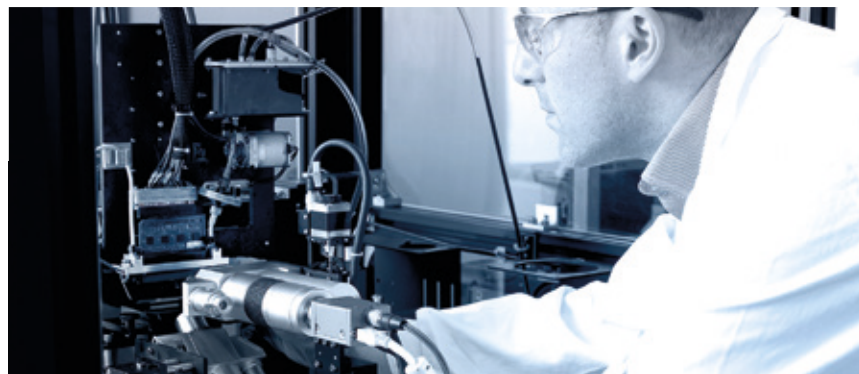
Uvijet ink: The technology that fuels the machine



Smooth, high definition, vibrant prints

The life-blood of Onset is Uvijet ink. It is manufactured with Fujifilm's patented Micro-V dispersion process which enables the ink to have a higher pigment concentration. The result is visibly stronger, more vibrant colours, which can be consistently reproduced. Uvijet offers phenomenal mileage even when producing top quality high-gloss prints.

Onset prints are cured instantly and are ready to use straight away.

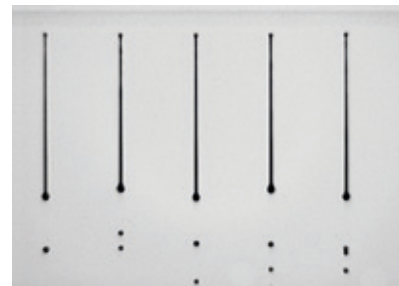


Every drop matters

Onset's full-width printhead array jets billions of drops per second, each directed to a precise location, producing hundreds of square metres of high-resolution print per hour.

The demands on printheads and ink performance are very high, but to jet well and reliably they must be designed for each other.

Onset's Uvijet inks are developed by Fujifilm Speciality Ink Systems in the UK, working in partnership with sister company printhead manufacturer, Fujifilm Dimatix, to develop optimum ink chemistry for the printheads. As part of the design process, printhead jetting patterns are tailored to the ink to achieve the best performance and reliability.



Ink drop formation on the journey from printhead to substrate. To achieve the best image quality Onset must fire a drop at the print surface to land with pinpoint accuracy and in perfect shape. Only good ink design, tuned to the printhead, makes reliable jetting possible.

Developing inkjet platforms of the future



Piezo inkjet is the core technology behind the latest generation of inkjet printers like Onset. Fujifilm and Inca Digital collaboration continues to drive the technology to develop tomorrow's inkjet systems and produce the printer platforms of the future.

Fujifilm is uniquely positioned with printhead, ink and fundamental inkjet integration technology development in house.

Inca is a world leading equipment manufacturer, with combined resources of mechanical designers, software engineers, project engineers and electronics developers, and 20% of staff working in research and development.



See for yourself

Fujifilm's Advanced Print Technology Centre

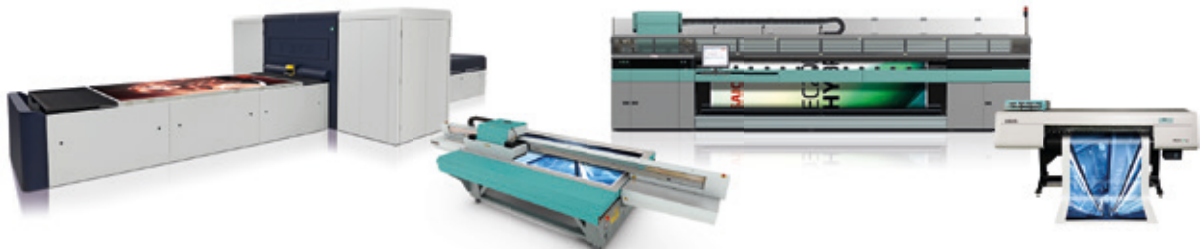
Fujifilm's state-of-the-art demonstration facilities are available for you to test-drive Onset, put it through its paces, and see how well it handles your work. Experience a demonstration of how Onset produces the right quality print at the throughput speeds you need to prove your return on investment calculations.

Your sales representative can arrange a visit to the Fujifilm Advanced Print Technology Centre in Brussels, where you can see all the latest machines and software in Fujifilm's wide format systems portfolio.



Fujifilm wide format systems

Fujifilm's high performance inkjet platforms are based on UV curing inkjet technology, fuelled by Uvijet ink which delivers instant curing and high production speeds with excellent image quality and colour vibrancy.



Inca Onset series

The world's fastest dedicated wide format flatbeds

Acuity Advance series

The world's most popular mid-range flatbed platform

Uvistar series

The cost-effective platform for superwide graphics

Acuity LED

High quality, versatile roll printer with the latest LED UV curing

Please contact your local Fujifilm partner or visit www.fujifilm.eu/print

For further information:

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