



OnsetX



CORE PRODUCT VALUES

WE DESIGN AND MANUFACTURE OUR PRODUCTS TO THE HIGHEST STANDARD. WHEN YOU CHOOSE INCA, YOU WILL GET THE BENEFITS OF OUR CORE PRODUCT VALUES ACROSS THE PORTFOLIO.

Quality is Key

Technologies found on all of our products have been refined to give our customers the best print quality. Onset's print engine and fast moving vacuum bed are built on a very robust chassis which enables pin-point drop placement accuracy of billions of drops per second, all day, every day. Inca's patented "print-a-shim" process takes the technology to the next level, optically mapping and adjusting for optimum quality across the bed.

Inca's nozzle-mapping feature minimizes print quality issues caused by deviated, unstable or blocked nozzles. It automatically identifies defective nozzles; the software scans and analyses a printed test pattern, prevents jetting from affected nozzles and compensates with adjacent functional nozzles. By dramatically minimising the use of deviating nozzles, we are confident that our printers will maintain their maximum throughput.

Print into the Future

Inca printers have a justified reputation for extraordinary reliability and unmatched production uptime. The combination of compatible hardware, software and inks on a well maintained machine can mean that the printheads can potentially last the lifetime of the printer. The Automated Cleaning Station helps maintain printheads without manual operator intervention and the in-built Maintenance Scheduler displays and plans tasks for the operator, which can be logged and tracked.

A major contributor to this performance is Inca Vision, a software-based customer support service unique to Inca Digital. Inca Vision allows Inca to remotely and regularly monitor and diagnose printer issues in the field, conducting diagnostics to determine how well they are performing and – often even before customers know they have a problem – decide whether there is a need for engineering support.

ONSET X SERIES PRODUCT RANGE

In 2007 Inca launched the ground-breaking Onset platform, a real workhorse. Today, the Onset X Series, built on the stability of the original Onset, provides a single-platform, scalable architecture that users can configure to provide the combination of speed and colours they need. Key to its flexibility is the unique 14-channel potential built into every Onset X. Inca has engineered modularity into the new platform meaning that upgrades can be carried out at customers' sites and completed in just a few days.

The Onset X Series enables print service providers to produce the widest spectrum of POS and other graphics, from everyday signage to the highest-quality backlit displays for demanding markets such as cosmetics and luxury consumer goods. The Onset X Series can print on a wide range of materials, including: foam PVC, PVC, foamboard, corrugated board, display board, Reboard, polystyrene, banner materials and Dibond®.

This unique series of printers can be configured to meet the customer's needs at installation or later, during the production life of the machine, whether it is for speed or colour combinations.

OnsetX1LT

The Onset X1 LT offers the amazing print quality of the Onset X Series at an entry level investment. It features a single set of CMYK inks with the option of additional colours at time of install or as an onsite upgrade. It is capable of producing 200m²/hr¹ (40 beds/hr) for superb POP quality display graphics. There is an easy upgrade path that allows the Onset X1 LT convert to an Onset X1.

OnsetX1

With a maximum throughput of 420m²/hr¹ (82 full beds/ hr) the Onset X1 is ideal for companies producing a mix of fast-turnaround retail graphics for distance viewing and high quality images for close up viewing. The eight channels are populated with 1 x CMYK and the remainder can be configured as required using light cyan, light magenta, white and orange (LcLmWO). When the time is right an additional six channel carriage can be added to scale up to the Onset X2.

OnsetX2

As business grows, or as the initial investment, Onset X2 provides companies the capacity to extend the volume of jobs the business can handle. The addition of a second set of CMYK delivers even higher productivity, 707m²/hr¹ (128 full beds/hr) while an optional six channels can be populated to add versatility and maintain its superb quality at a higher throughput.

OnsetX3

Capable of printing up to a blistering 900 m²/hr¹ (180 full beds/ hr), the Onset X3 sits at the current pinnacle of productivity. The 14 channels feature three sets of CMYK plus a choice of white or orange.

¹100% RID, satin finish with OW inks





KEY FEATURES AND BENEFITS

Full Width UV Lamp System

The Onset X Series offers fast, full width bi-directional printing with adjustable print finishes from a matt satin all the way up to a vibrant gloss on a wide range of media. 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.

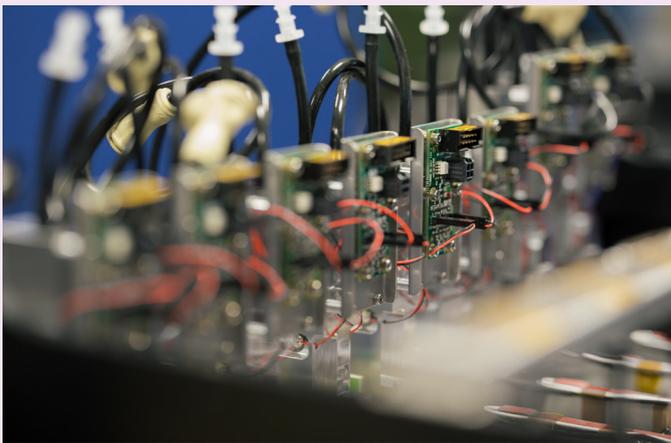
Mechanical Substrate Height Detectors (MSHDs)

Inca Onset printers have two pairs of mechanical substrate height detectors to protect the printheads and carriage from damage while printing. These monitor for potential obstructions that exceed the substrate height during printing. Any obstruction that exceeds this height will trigger a detector and cause the printer to immediately stop all movement.



25 Zone Vacuum Table

The 25-zone vacuum table features a powerful vacuum system and skin which reduces the need for bed masking. This greatly reduces set-up times for the most common POS substrates and additionally increases throughput of short-run, fast-turnaround print. Vacuum zones are independently controlled and the auto zone function allows it to be easily managed by the operator. Frequently-used formats can be automatically programmed and stored in a user-created database.



Vacuum Bed Monitoring

All Onset printers have vacuum level monitoring which will stop the printer if the vacuum pressure is too low to hold the material securely. This helps to prevent possible damage to the print carriage when printing porous and/or materials that are not completely flat.

Easy to Use Graphical User Interface (GUI)

Inca has developed a new GUI for the Onset X Series that provides a powerful yet simple-to-use printer and job management tool. The new GUI allows the operator to initiate and finalise jobs as well as save settings, create print queues while managing and optimising every stage of the print process. The GUI is multi-language capable.

OPTIONS

Productivity Pack²

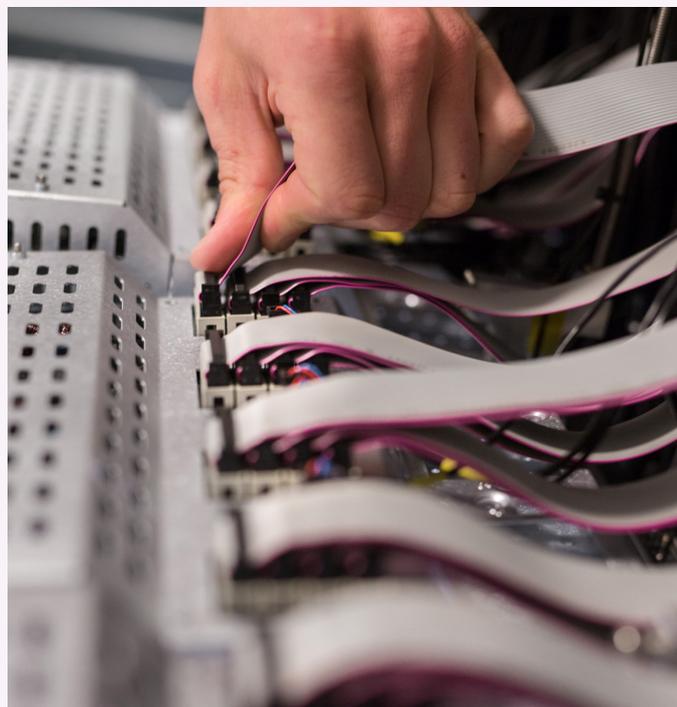
The Productivity Pack consists of clever features which improve the productivity and print quality of the Onset X Series. An adjustable table skin eliminates masking³ for vacuum while side shutters and fast shutters⁴ eliminate masking for UV bounce. Print quality is improved by the print-a-shim⁵ process, which improves the flatness of the table skin and the surface of the material to be printed.

Adhesive Substrate Cleaner

The Adhesive Substrate Cleaner removes dust and contamination from the substrate during the first print pass, thereby reducing the amount of lost production due to particulate causing lost or deviated nozzles. This helps maintain print quality, reduces substrate wastage and increases uptime.

Tier Drop

Tier Drop software allows the operator to change the size of the ink drop to increase the productivity of the Onset X1 and X2 printers. For Onset X3 printers, customers have the ability to increase the quality of the image using a smaller drop size.



Substrate Handling

All models in the Onset X Series are available with a variety of substrate handling options to load and unload media up to 3.22m x 1.6m and thicknesses of up to 50mm.

> 3/4 Automation – Manual load and Automated unload

Features a '3/4' laytable and transfer system. Substrate is loaded manually onto the laytable by the operator, which is then automatically moved by the transfer system onto the vacuum table. After printing, the transfer system moves the substrate onto a stack. The system supports the printing of 1, 2, 3 or 4 sheets left or right hand justified, double-sided printing, and also allows for manual operation for short-run jobs if necessary. Different unload configurations are supported to suit the customer's premises.

> Full Automation - Automated Hostert[®] load and Automated unload

Features a Hostert[®] Automatic Feeder and transfer system. The automatic feeder collects, feeds and aligns substrate, in readiness for collection by the transfer system. The system supports the printing of 1, 2, 3 or 4 sheets, and double sided printing, and also allows manual operation for short-run jobs if necessary. This combination allows for high volume printing onto a variety of media types and sizes commonly used within the display, POP and sign markets. Thanks to the continuous feed and print, customers can achieve increased productivity and efficiency. Different unload configurations are supported to suit customer's premises.

> Robot Substrate Handling Systems

Robot substrate handling systems have a range of load and unload options. Robots enable loading from a single stack to multiple-ups on the vacuum table. For unloading, robots can unload from the vacuum table to a single stack, with the option of unloading to inspection tables, cutting tables or to stacks on a conveyor belt.

IncaConnect

IncaConnect is Inca Digital's new suite of software tools designed to offer opportunities to increase efficiency and save time. Building on the success of ReporterPro and PRC (print run controller), IncaConnect offers customers the tools to fully integrate Inca printers seamlessly with our customers' existing MIS and workflow software systems.

² Fitted as standard on machines that have 10 or more channels.

³ Excluding very porous or non-flat media such as corrugated board.

⁴ Reduces UV bounce for substrates up to 13mm thick

⁵ Patent pending at time of publication. Not an option for machines using LM or OL inks.

Inca has developed from a small Cambridge start-up company to become one of the world's leading inkjet pioneers. The Onset X Series, launched in 2015, is the current pinnacle of digital printing. With 25% of staff involved in R&D and supported by significant investment, Inca strives to maintain its position at the forefront of machine productivity, innovation, quality and reliability. Alongside its R&D facility, Inca's HQ in Cambridge is home to its 20,000m² of manufacturing facility, customer support hub, and a dedicated training facility.

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