Machine Features

- **UV curing inks**
- **Precision motion control systems**
- **Up to 700 m²/hr**
- **Full width printheads**
- **Automation options**
- **Gloss printing options**
- **Double-ended register pins & accurate loading**

Customer Support

The Inca support team provide technical assistance by phone, on-line and at your facility. Fix times are critical on such equipment and, whether delivering engineering support, applications assistance or general advice, the Inca Support team will help you to resolve problems efficiently and maximise the uptime on your equipment.

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Onset Technical Specification

Product Description

- **Flatbed inkjet printing press**
  - Maximum substrate size 3.2 m x 1.6 m (126 in x 63 in) Note: This is sheet size – see print area below
  - Maximum substrate thickness 10 mm (0.4 in) automatic mode, 19 mm (0.75 in) manual mode
  - Maximum substrate weight 10 kg evenly spread
  - Print area 3.2 x 1.524 m (126 x 60 in)
- **Operator console including screen and panel view**
- **Load/unload options**
  - Fully automatic
  - Automatic unload
  - Assisted load
  - Fully manual
- **4 x UV curing lamps**
- **Uni-directional and bi-directional print**

Including:

- Installation kit
- Operator training
- Operator manual
- RIP training

Physical Machine Dimensions	
Width	10.20 m (402 in)
Length	12.90 m (508 in)
Height	2.2 m (87 in)
Footprint	Minimum 15.5 m (610 in) x 10.2 m (402 in) x 12 m (472 in (including safety scanner zones)
Weight	Approximately 12,000 kg plus chiller. Automation: 2500 kg
External Chiller	853 mm high x 775 mm long x 570 mm wide
Console	Onset has a separate control console
User Interface	
Console	Print PC Free standing control console with screen, mouse and keyboard
Media	
Max Print Size	3.2 x 1.524 m (126 x 60 in)
Max Substrate Thickness	10 mm / 0.4 in using automation 19 mm / 0.75 in Manual load and unload
Cleaning/Treatment	Substrate should be free of dust Solutions are available from Fujifilm Sericol for pre-treatment and to promote adhesion
Machine Configurations	Automation options available
Media	A wide range of rigid materials and flexibles including plastics, paper, corrugated and display board
Printing Technology	
Heads	144 printheads per colour. 576 printheads in total
Drop Size	28 ng
Resolution	600-1000 dpi
Inks and Curing	
Inks	CMYK system using Fujifilm Sericol UV cure inks
Curing	Quad mercury UV lamp. Tack-free immediately after printing for stacking output
Bulk tanks	Refill during printing

Printing	
Maximum Substrate Weight	20 kg/44 lbs at full table speed 10 kg / 22 lbs using Automatic handling
Throughputs and Modes	4 pass bi-di 700 m²/hr (7534 ft²/hr) Satin Finish 145 beds/hr 4 pass 500 m²/hr (5382 ft²/hr) Satin Finish 105 beds/hr 7 pass 420 m²/hr (4521 ft²/hr) Satin Finish 88 beds/hr 4 pass 420 m²/hr (4521 ft²/hr) Gloss Finish 88 beds/hr 7 pass 350 m²/hr (3767 ft²/hr) Gloss Finish 73 beds/hr
RIP	
RIP Hardware	Specification available
RIP Software	Wasatch or ColorGATE RIP software available
Requirements	
Power	380–420V AC,3 Phase positive@ 250A per phase
Compressed Air	Onset: 6 Bar, 690 l/min, ISO8573.1:Class 1.4.1 Auto-speed 6 Bar, 665 l/min. HTB/Wandres 6 Bar, 476 l/min.
Network	Minimum 1000 Base T
Ventilation	250 mm external intake and outtake ducts for UV lamp cooling
Environment	
Temperature	20-30 °C Ambient
Humidity	Less than 80% humidity
Standards	
EMC	BS EN 61000-6-2:2001 (Immunity) BS EN 61000-6-2:2001 (Emissions)
Safety	UL compliant (not approved) CE Low Voltage and Machinery Directives Meets the requirements for compliance with CSA SPE-1000

511 Coldhams Lane, Cambridge, CB1 3JS Tel: +44 (0)1223 577800 Fax: +44 (0)1223 577801 Email: info@incadigital.com

SCREEN
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Developing the future of inkjet

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It's a matter of time

Onset created the biggest quality step change in digital print with its launch in 2007. The first flatbed machine to use full-width printhead arrays, it delivers high quality, high speed output on rigid and flexible materials, challenging screen printing and offset printing through its versatility and productivity. Precision motion and controls systems enable the Onset to redefine the quality and consistency for which Inca equipment has become renowned.

Productivity

Capable of being used automatically for a long run, but with a fast change over for a short print run in semi-automatic or manual mode, the machine is designed to maintain production versatility whilst improving throughput with the automation options.

Colour Range

A four colour machine, the Onset uses 28 ng printheads to create a print quality which is suitable for large format graphics and retail POP applications. Outdoor durable UV cure inks deliver a powerful, punchy result which more than satisfy market needs.

Economics

Simple job set-up, image change on the fly and high throughput speed makes Onset a viable option from one print up to 500 full bed sheets. Generating 450-off 60"x 40" prints an hour, Onset is a true digital production press.

Print Finish

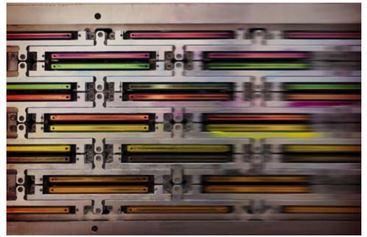
Operator selection of satin through to mid-gloss, allows versatility of finish to be matched to the substrate and customer needs. Four UV lamps provide flexibility and control to deliver the correct adhesion on a wide variety of materials.

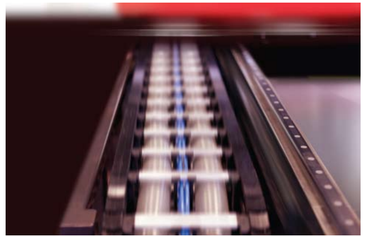
Reliability

Designed to give you production output 24/7 your team will be given the skills to run and maintain your Onset to provide reliable performance. On-board software, such as nozzle mapping, assists with increased reliability and print quality control.

Response Times

Uptime is critical to a machine with this print capacity and this is reflected in the support contracts offered against this press. After the warranty period, Inca's Service Contracts offer a variety of response levels to keep you running and delivering your customers' jobs.





With automation options available the Onset can be installed to meet a variety of throughput and materials handling needs. Continuing with the use of Inca's signature moving table technology, the Onset is capable of running a range of sheet materials which expand the printers capability compared with most screen and offset presses and open up new production opportunities. With the option to create a range of gloss finishes from satin through to gloss, the printer also offers a wide colour gamut from its process colour ink set.

Outstanding Print Quality

Using 28 ng heads, the Onset delivers an outstanding print quality that satisfies a wide range of work, from museum graphics, retail promotions and dump bins through to large format retail and external signage.

Environmental Credentials

Components are responsibly sourced and the printers incorporate controls to change to standby power without impacting on productivity. UV ink technology provides VOC-free printing and reduces the wastage associated with the set-up and clean-down of traditional printing technologies.

Job Flow and Processing

With a choice of RIP solutions offering colour control plus options for variable data handling, cutter guides, tiling and nesting, jobs can be smoothly managed from the studio through to the finishing operation. Inca PRC software is also available to improve job scheduling.

Material Selection

Onset is designed to accommodate a range of materials for the wide format and POP market.* This includes the more usual papers and plastics, but with a 19 mm print height, can also embrace more unusual substrates such as extruded plastics, wood, and corrugated boards.

Control Console/User Interface

A free-standing operator console provides the essential data required to run, monitor and maintain the machine. Simple print queues with thumbnails provide job information. Maintenance screens offer information on ink and system condition and assist with fault finding.

* Substrates should be tested for suitability before use, since they vary from different suppliers and factories and can display a wide variety of properties

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