Onset
S20

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Developing the future of inkjet

Setting new standards for speed and quality

Onset S20 continues the quality step change created by the launch of the Inca Onset. Using full-width printhead arrays, it delivers high quality, high speed output on rigid and flexible materials. Precision motion and controls systems enable the S20 to deliver the quality and consistency for which Inca equipment has become renowned.

With software options such as Inca's PRC available, handling complex jobs is now simpler. Using Inca's signature moving table technology, the S20's vacuum table is capable of running a wide range of materials. New and innovative UV lamp controls mean that the S20 can deliver a variety of print finishes, from satin through to gloss, making it a versatile production tool for a wide variety of end applications.

Productivity

Full-width print arrays have made a step change in digital print productivity, delivering high quality output at speeds that challenge screen and short-run offset printing. Offering a number of handling solutions to minimise changeover time and increase overall machine productivity, the Onset S20 can be specified to meet your business needs.

Colour Range

With the choice of light cyan and light magenta or white to complement the CMYK set, the S20 offers a wide colour gamut, plus increased accuracy on key spot colours. For those requiring smooth skin tones at close viewing, the light colours will be invaluable, whilst the six colour set helps hit those difficult house colours.

Economics

Whether moving work from a digital press, a screen press or an offset press, the S20 will provide an economical solution for jobs up to 300 sheets. With the option of either manual loading or automation, job set-up and changeover is simple and fast. Able to deliver an outstanding 50 full beds an hour, or 150-off 60" x 40" prints, this is a key production tool for your business.

Outstanding Print Quality

Using 28 ng heads, the S20 delivers a print quality that will satisfy a wide range of work, from exhibition graphics, retail display and dump bins through to large format signage for internal and external applications.

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 clean-down and set-up 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 and proofing, jobs can be smoothly managed from the studio through to the finishing operation. Inca PRC software is also available to improve job scheduling.

Print Finish

Operator selection of satin through to gloss, allows the correct print finish to be selected for the end application. The combination of high gloss, six colour and the associated wider colour gamut, allows even the most demanding customer to be satisfied.

Reliability

Designed to give you production output 24/7 your team will be given the skills to run and maintain your Onset S20 to provide reliable performance. On-board software, such as nozzle mapping, assists with increased uptime 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 for 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.

Material Selection

S20 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 50 mm print height, can also embrace more unusual substrates such as wood, glass and rigid plastics.

Control Console/User Interface

A free-standing operator console provides all the essential data required to run, monitor and maintain the machine. Simple print queues with thumbnails provide job information whilst maintenance screens offer up-to-date information on system condition and faults.

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

Machine Features

- **UV curing inks**
- **Precision motion control system**
- **Up to 250 m²/hr throughput**
- **Full width print heads**
- **Gloss printing options**
- **Double-ended register pins for accurate loading**
- **Moving vacuum table for simple sheet set up**
- **Automation available**

Customer Support

The Inca support team provides technical assistance by phone, on-line and at your facility. 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 S20 Technical Specification

Product Description

- **Flatbed inkjet printing press**
  - Maximum print area 3.14 m x 1.6 m (123.6 in x 63 in)
  - Maximum substrate thickness 50 mm (2 in) in manual mode 10 mm (0.4 in) using automation
  - Maximum substrate weight: 20 kg (44 lbs) in manual mode 10 kg (22 lbs) using automation

- **Operator console including screen, keyboard and mouse**

- **¾ Auto-load option**
  - Manual lay table
  - Auto-unloader
  - Multi-sheet feed facility.

- **2 x UV curing lamps**

- **Uni-directional and bi-directional print**

Including:
- Installation kit
- Operator training
- Operator manual
- RIP training

Physical Machine Dimensions

Width	5.20 m (205 in)
Length	10.8 m (425 in)
Height	2.2 m (87 in)
Machine Footprint	5.03 m (198 in) (not including tanks) x 10.83 (426 in) x 2.13 m (84 in) to include, safety zone door opening access plus chiller.
Weight	6000 kgs (13228 lbs)
Console	Onset S20 has a separate control console

User Interface

Console	Free-standing console with TFT screen, mouse & keyboard

Media

Max Print Size	3.14 m x 1.6 m (123.6 in x 63 in)
Max Substrate Thickness	50 mm (2 in) in manual mode 10 mm (0.4 in) using automation
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	26 printheads per colour
Resolution	600-1000 dpi

Inks and Curing

Inks	Choice of configurations: CMYK, Light Cyan, Light Magenta or White using Fujifilm Sericol UV cure inks
Curing	Dual mercury UV lamps
Ink Tanks	Top loading 4 litre bulk tanks

Printing

Maximum Substrate Weight	20 kg/44 lbs at full table speed 10 kg/22 lbs using ¾ auto handling option
Throughputs & Modes	16 pass bi-di 250 m²/hr Satin Finish 50 Beds/hr 16 pass uni-di 180 m²/hr Satin Finish 36 Beds/hr 16 pass bi-di 220 m²/hr Gloss Finish 44 Beds/hr 16 pass uni-di 150 m²/hr Gloss Finish 30 Beds/hr

RIP

RIP Hardware	PC not included with machine
RIP Software	Wasatch or ColorGATE RIP software available

Requirements

Machine Power	380-480V 3 phase 50/60 Hz @ 150A per phase
Chiller Power	380-480V 3 phase 50/60 Hz @ 30A per phase
Compressed Air	6 Bar, 0.3 m³/min, ISO8573.1: Class 1.4.1
Network	Minimum 1000 Base T

Environment

Temperature	20-30 °C Ambient
Humidity	< 80% RH (non-condensing)

Standards

EMC	BS EN 61000-6-2:2001 (Immunity) BS EN 61000-6-4:2001 (Emissions)
Safety	UL Compliant (not approved) CE Low Voltage and Machinery Directives Meets the requirements for compliance with CSA SPE-1000

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