



Inca Onset Series UV Flatbed

PRODUCT BROCHURE

The powerful high-end UV inkjet printer platform from Fujifilm and Inca Digital



The Inca Onset series

Since 2001 Inca and Fujifilm have collaborated to build outstanding inkjet printers. Based on a thorough understanding of print applications we have combined precision engineering with outstanding ink chemistry. The Onset series is the latest, most dazzling achievement.



Each of the Onset models (S20, S40 and S70) has been designed to slot into the market at an exact point and to lead that class. The technology is world-leading: Powerful linear motors and vacuum beds that can hold up to 80kg of media. Full-width print head arrays and UV lamp systems allow almost instantly cured print. A powerful handling system ensures both phenomenal productivity and quick switch to manual operation. This clever technology is designed to achieve three aims we know are important to print firms.

Business efficiency: Onset offers better efficiency and productivity, saving up to 20% in production costs.

Business development: The unique capabilities of Onset models mean that owners can step beyond indoor and outdoor display into the fields of packaging and 3-D, and take on industrial print with media such as metal and glass.

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 S20



Onset S40



Onset S70

THE INCA ONSET SERIES
HIGH-END UV INKJET PRINTERS



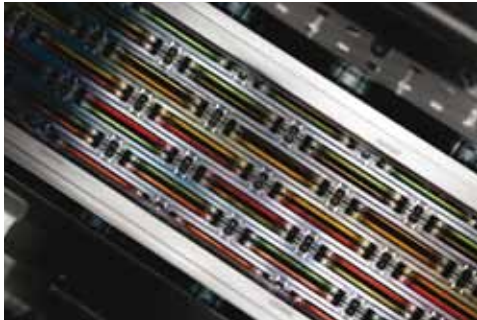
Onset

Technology

Onset is the latest in a line of proven winners from Inca. Eagle, Columbia Turbo and Spyder models were world champions in their time. They have proved themselves daily for hundreds of owners around the world. To this day, hundreds of machines are turning out €3 million of print every day.

Onset delivers top quality print, reliability and cost savings. The print industry is cursed by promises of upgrades, but just as tomorrow never comes, the ideal machine will always be just around the corner. The wait is over because the machine you need is here now.





1 Full-width print head array

Textural banding eliminated

The image is printed with the printheads in a fixed position, not scanning across the media. Images do not suffer from textural banding and consistent print means the cost of rejected prints is reduced.



2 Fujifilm Dimatix print heads

Great definition at high speed

Spectra heads have proven their reliability in full production for many years. On Onset they produce 27-picolitre drops. To get the best throughput from Onset, drops are precisely calculated to give excellent results at top speed.



3 Nozzle back-up

Perfect print every time

Onset jets up to three billion drops of ink per second. It is armed to the teeth with up to 24 print modules, each with up to 24 print heads. The colossal number of nozzles means there is always spare capacity to handle any drop-outs.



4 Full-width UV lamp system

Lower lamp settings, print doesn't warp

Onset has multiple UV lamps that allow for fast bi-directional 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.



5 Automation

High throughput, auto-stacking

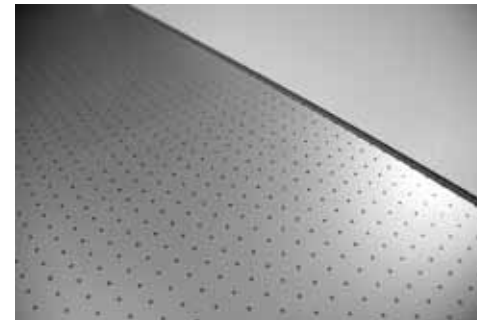
Onset has a powerful, efficient handling system designed to feed it as fast as it works, but it still quickly allows the operator immediate and direct access to the bed and registration points. Short run and one- or two-off jobs can be done in between long, automated runs.



6 Uvijet ink

Great mileage, perfect colour standards / matching

Onset is fuelled by Fujifilm's Uvijet inks, which produce the strongest, most vibrant colours of any ink system. The range offers absolute precision of colour matching to an ISO standard.



7 Vacuum flatbed

Prints on virtually all materials

Onset is not precious. It's designed for printing on an industrial scale, so it prints on industrial materials - metal, wood, plastic and so on, as well as conventional graphic media. Because suction applies to the full bed, print is consistent in every area and from media to media.



8 Build quality

Unbeatable uptime

Onset's concept and design is Inca's 4th 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.

A day in the life...

Walk down any high street. Imagine having the capacity to produce every piece of rigid graphic print you see. With Onset's direct-to-media printing, you can.

But indoor / outdoor display is just the beginning. Onset is perfectly suited to a huge range of applications, which can unlock new, profitable work for your business. Onset opens up two valuable markets:

- ▶ 3-D and packaging media
- ▶ Industrial media – glass, wood, metal and plastics up to 50 mm thick

06:00

07:00

07:15

08:00

08:30

13:15

14:45

From high-value, short-run prints to conventional long runs, Onset can handle all sorts of print jobs in a working day, quickly and efficiently⁽¹⁾:

Daily Maintenance (15 mins)



Print time:
45 mins



Print time:
15 mins



Print time:
45 mins



Print time:
30 mins



Print time:
4 hrs 45 mins



Print time:
1 hr 30 mins

Job 1
Single sheet poster
Finished material:
PVC

Run length: 40
Print finish: Gloss
Print mode: 16 pass BiDi
Sheet size / mtr: 3.0 x 1.6

Job 2
Outdoor banners
Finished material:
Banner

Run length: 20
Print finish: Satin
Print mode: 12 pass BiDi
Sheet size / mtr: 1.6 x 1.5

Job 3
Exhibition graphics
Finished material:
Foam PVC

Run length: 30
Print finish: Gloss
Print mode: 16 pass BiDi
Sheet size / mtr: 3.0 x 1.6

Job 4
Single sheet poster
Finished material:
Paper

Run length: 25
Print finish: Gloss
Print mode: 12 pass BiDi
Sheet size / mtr: 3.0 x 1.6

Job 5
Bus advertising
Finished material:
Weather Board

Run length: 270
Print finish: Satin
Print mode: 12 pass BiDi
Sheet size / mtr: 2.14 x 1.3

Job 6
Airport signage (3up)
Finished material:
Display Board

Run length: 70
Print finish: Gloss
Print mode: 16 pass BiDi
Sheet size / mtr: 1.524 x 1.016

⁽¹⁾ Print times shown are for an Onset S20, including pre-press, bed layup, printing and media handling.

Onset can hold heavyweight media comfortably. Its powerful vacuum bed holds 80kg (at mid-pace). Precision engineering means near-perfect registration for two-sided print. Media change-over takes seconds, so you can mix long-run jobs with bespoke one-offs.

Onset's Pro-File ISO compliant colour-standard inks deliver absolutely faithful colours. This means you can remotely print sub-contracted work and guarantee the buyer a perfect colour match.

Onset is a series of machines that can handle not only your business today, but also the work you will attract in the future.

16:00

17:00

19:00

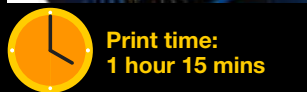
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23:30

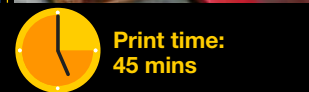
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05:00

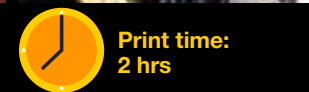
Daily Maintenance (15 mins)



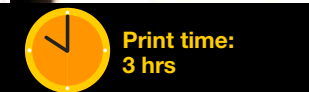
Print time:
1 hour 15 mins



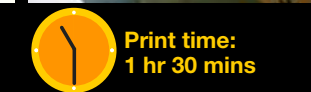
Print time:
45 mins



Print time:
2 hrs



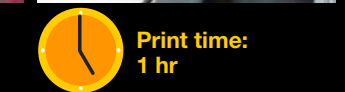
Print time:
3 hrs



Print time:
1 hr 30 mins



Print time:
4 hrs 30 mins



Print time:
1 hr

Job 7
Backlit signs (2up)
Finished material:
PETG

Run length: 110
Print finish: Satin
Print mode: 20 pass BiDi
Sheet size / mtr: 1.524 x 1.016

Job 8
Instore displays (50/300)
Finished material:
PVC

Run length: 50
Print finish: Gloss
Print mode: 16 pass BiDi
Sheet size / mtr: 3.0 x 1.6

Job 9
New store displays
Finished material:
Metallic Dibond

Run length: 90
Print finish: Satin
Print mode: 16 pass BiDi
Sheet size / mtr: 2.4 x 1.6

Job 10
Instore backlit
Finished material:
Opal acrylic

Run length: 200
Print finish: Satin
Print mode: 12 pass BiDi
Sheet size / mtr: 2.4 x 1.2

Job 11
Wood panels
Finished material:
Wood

Run length: 50
Print finish: Gloss
Print mode: 12 pass BiDi
Sheet size / mtr: 1.6 x 3.14

Job 12
Stadium signage
Finished material:
Correx

Run length: 250
Print finish: Satin
Print mode: 12 pass BiDi
Sheet size / mtr: 1.6 x 2.4

Job 13
Hoarding
Finished material:
Plywood

Run length: 40
Print finish: Satin
Print mode: 12 pass BiDi
Sheet size / mtr: 2.4 x 1.2



Automation – working the bed

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 media.

Flat out, Onset S70 can finish two full beds of print in less than a minute, so a fast and powerful handling system is vital if Onset is to perform to its full capacity.

Onset's 3/4 automation system lets you do two- or three-up, single sheet, multiple sheet or double-sided print in registration. Best of all, the system allows the operator immediate, direct access to the bed and registration points. A simple click and dropping a bar is all it takes. This facility means work can also be semi-automatic or manual.

Onset's automation can be configured to suit your premises.

S70 full automation



S20 3/4 automation set in manual mode



S20 showing 3/4 automation

UV ink system – smooth, high definition, vibrant prints



In 2000 Uvijet was the first UV curing inkjet ink. Today it is still the world's best-seller, producing thousands of prints every day.

The life-blood of Onset is Uvijet ink. It is manufactured with Fujifilm's patented Micro-V dispersion process, which reduces the pigment to a size smaller than a human cell.

This means that print heads are much less likely to block, saving time and money. It also means a bigger dose of pigment can be concentrated into the same volume. The result is visibly stronger, more vibrant colours, which can be consistently reproduced thanks to Fujifilm's Pro-File ISO-standard colour-matching process.

Thanks to the concentration of pigment, Uvijet offers phenomenal mileage even when producing top quality high-gloss prints.

Every second, Onset S70 jets up to three billion drops of ink, and each drop of ink is exactly 27 pico-litres. This is the precise amount of ink the head can jet onto moving media without the drop being buffeted by micro-turbulence and deflected from its target. The result is superbly sharp images even at high speed.

Full-width UV lamp system

On the fastest inkjet printer in the world, ink has to jet, wet and fully cure almost instantly. Materials differ and buyers want a variety of matt, satin or high gloss finishes.

Onset features multiple UV lamps that allow for fast bi-directional print. The system can also vary the UV dosage, which lets the ink cure perfectly, whatever the finish. Another benefit is that reducing the UV dosage saves energy, keeping running costs down.

The combination of patented ink chemistry, precision UV dosage and the power of the lamps is unique, allowing the ink to adhere to a broad variety of media. Only Onset can produce a high speed, high gloss finish.



Onset + Uvijet inks

- ▶ Class leading print quality
- ▶ Excellent spot colour reproduction
- ▶ Choose your finish: Satin to high-gloss
- ▶ Can print to ISO12647-2 offset sheet standard



Specification summary

Onset S20

Physical Machine Dimensions	
Width	5.2m
Length	10.8m
Height	2.2m
Weight	Approximately 6,000kg plus chiller
Media	
Max print size	3.14 x 1.6m
Max substrate thickness	10mm using automation 50mm manual load and unload
Media	A wide range of rigid materials and flexibles including plastics, paper, corrugated and display board
Printing Technology	
Heads	Fujifilm Dimatix. 26 printheads per colour, 156 printheads in total
Resolution	up to 600 dpi
Inks and Curing	
Inks	Fujifilm Uvijet UV curing CMYK, CMYKLcLm, CMYK + white
Printing	
Maximum substrate weight	20kg evenly loaded 10kg using automatic handling 80kg evenly loaded at reduced speed
Throughputs and modes	3/4 automation mode: up to 315m ² /h Manual mode: up to 225m ² /h
RIP	
RIP software	Wasatch or ColorGATE RIP
Environment	
Temperature	20-30°C ambient
Humidity	Less than 80% humidity

Onset S40

Physical Machine Dimensions	
Width	5.2m
Length	10.8m
Height	2.2m
Weight	Approximately 6,000kg plus chiller
Media	
Max print size	3.14 x 1.6m
Max substrate thickness	10mm using automation 50mm manual load and unload
Media	A wide range of rigid materials and flexibles including plastics, paper, corrugated and display board
Printing Technology	
Heads	Fujifilm Dimatix. 28 printheads per colour, 168 printheads in total
Resolution	up to 600 dpi
Inks and Curing	
Inks	Fujifilm Uvijet UV curing CMYK, CMYKLcLm
Printing	
Maximum substrate weight	20kg evenly loaded 10kg using automatic handling 80kg evenly loaded at reduced speed
Throughputs and modes	3/4 automation mode: up to 470m ² /h
RIP	
RIP software	Wasatch or ColorGATE RIP
Environment	
Temperature	20-30°C ambient
Humidity	Less than 80% humidity

Onset S70

Physical Machine Dimensions	
Width	10.2m
Length	12.9m
Height	2.2m
Weight	Approximately 12,000kg plus chiller. Automation: 2500kg
Media	
Max print size	3.2 x 1.524m
Max substrate thickness	10mm using automation 19mm manual load and unload
Media	A wide range of rigid materials and flexibles including plastics, paper, corrugated and display board
Printing Technology	
Heads	Fujifilm Dimatix. 144 printheads per colour, 576 printheads in total
Resolution	up to 600 dpi
Inks and Curing	
Inks	Fujifilm Uvijet UV curing CMYK
Printing	
Maximum substrate weight	20kg at full table speed 10kg using automatic handling
Throughputs and modes	Up to 750m ² /h
RIP	
RIP software	Wasatch or ColorGATE RIP
Environment	
Temperature	20-30°C ambient
Humidity	Less than 80% humidity

For full technical specifications please contact Fujifilm.

A series as flexible as the machine itself

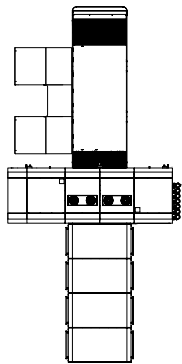
18 Onset configurations

Configuration:		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Basic model	Onset S20	•	•	•	•	•	•	•	•	•									
	Onset S40										•	•	•	•	•	•			
	Onset S70																•	•	•
Ink sets	4 colour	•	•	•							•	•	•				•	•	•
	6 colour (lights)				•	•	•							•	•	•			
	4 colour + white							•	•	•									
Automation	Manual	•			•			•			•			•			•		
	3/4 long		•			•			•			•			•			•	
	3/4 short			•			•			•			•			•			
	Full																		•

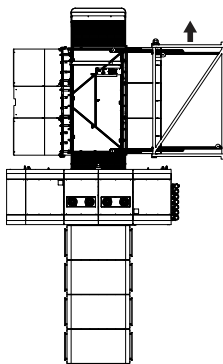
Onset gives you choices:

- ▶ A range of base machines to suit your productivity needs
- ▶ Specify an automation system to suit your production
- ▶ Choose a Uvjet colour set to suit the type of work you produce
- ▶ Handle short-run bespoke jobs to traditional high volume runs
- ▶ Print on a wide range of rigid and flexible media
- ▶ Produce a range of work from graphic display to specialist industrial applications

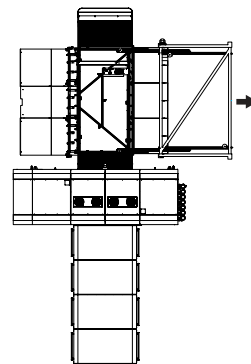
Automation configurations



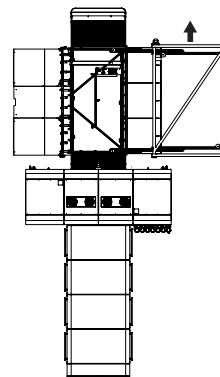
Onset S20 manual



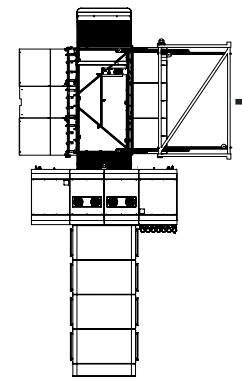
Onset S20 with 3/4 short edge automation



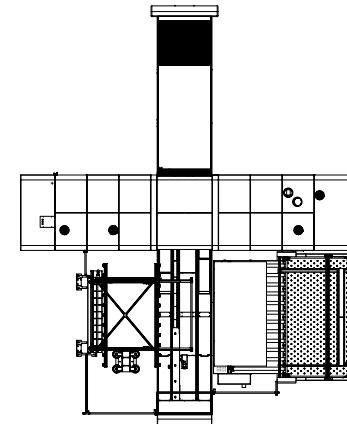
Onset S20 with 3/4 long edge automation



Onset S40 with 3/4 short edge automation



Onset S40 with 3/4 long edge automation



Onset S70 with full automation

Take the Onset Challenge. Can you afford not to?



Please contact Fujifilm for further information

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