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A BREAKTHROUGH IN DIGITAL PRINTING

Onset 

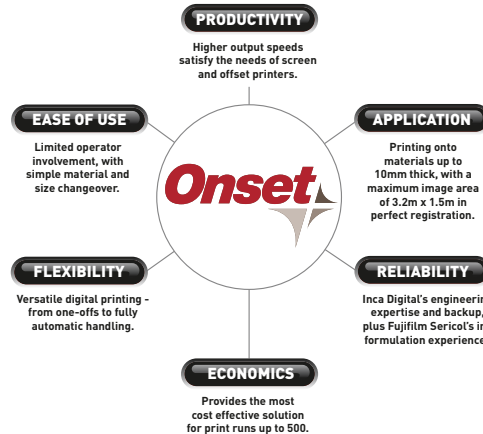
A BREAKTHROUGH IN DIGITAL PRINTING

The adoption of UV inkjet technology has provided the print industry with a cost-effective method for producing high quality short-run display PoP and signage. Having pioneered the development of digital flatbed, **Fujifilm Sericol** and **Inca Digital** continue to innovate in productivity and image quality.

The combination of Inca Digital's engineering and imaging expertise with Fujifilm Sericol's experience of UV ink formulation results in innovative print solutions which deliver the highest return on investment through:

- High print speeds
- Excellent image quality
- World class reliability and machine/ink performance

The Inca Onset represents a significant advance in flatbed inkjet technology, and will change the way in which display graphics are produced, now and in the future.



The Visual Communication Industry – A Changing World

The Inca Onset is designed primarily for the point of purchase display graphics market. Its superior print speed alters the dynamics achievable for UV digital printing compared to traditional screen and offset technologies.

The print industry continually seeks increased productivity, reduced costs and greater flexibility in new print processes. This forces printers to invest in new technologies often before they have been fully proven.

The Inca Onset removes this uncertainty by using proven technology to maximise reliability and reduce overall cost of ownership.

Onset

Dual UV lamp curing system
(front and rear)

Full vacuum table

500m²/hr maximum throughput

3200 x 1524mm image size

Uvijet UV-curing inks (CMYK)

AutoSpeed
automatic material
handling system



Print-head array:
24 print modules
with 24 Spectra
print heads per
module



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Material Handling

Fully automatic or manual

The Inca Onset is equipped with a fully automatic material handling system for maximum production efficiency. But recognising the fact that not all material printed will be a standard format size or thickness, the print bed is immediately accessible - maximising versatility.

Print Accuracy and Reliability

The Inca Onset is configured to produce the highest print quality. It has 24 print modules each containing 24 Spectra print heads (CMYK). A built-in automatic head cleaning station ensures consistent quality and simple ease of use.

Curing

The Uvijet UV inks are cured instantly by a dual lamp system. This ensures that the inks are fully cured using the lowest energy levels possible per media type, and the print finish can be adjusted between satin and gloss.

Application Range

The Inca Onset can be used for a wide variety of applications, including:

- Display PoP
- Exhibition graphics
- Backlit displays
- Outdoor signage
- Lenticular 3D printing

Specification

Print area (max)	3200 x 1524mm [126 x 60"]
Productivity	
Print speed (throughput)	Satin standard 500m ² /hr Satin quality 420m ² /hr Gloss standard 420m ² /hr Gloss quality 350m ² /hr
Physical Characteristics	
Power supply	
Printer	380-420V AC, 3-phase
AutoSpeed unloader	415V AC, 3-phase positive
Width	10176mm
Length	12840mm
Height	2030mm
Space requirement	21 x 13m
Approximate weight	
Printer	12000kg
AutoSpeed unloader	2500kg
Factory air requirement	
Printer	90psi
AutoSpeed unloader	50psi
RIP	Wasatch SoftRIP® v4.0
Network requirements	1000BaseT
Machine Features	
Printing system	
Technology	Piezo drop-on-demand inkjet
Process	4 colour, CMYK
Print modules	24 [6 per colour]
Full vacuum table	✓
Micro height adjustment control for maximum print quality	✓
Edge-to-edge printing	✓
Double-side printing in perfect registration	✓
Fixed dual registration points	✓

The Uvijet Advantage

Uvijet UV curable inks are specifically formulated to match the productivity and expected application range for the Inca Onset. Uvijet inks deliver vibrant colours and durability for both internal and external applications.

Micro-V Dispersion

The use of Micro-V dispersion technology maximises pigment loading in Uvijet inks to achieve high colour strength whilst maintaining ink stability. The ultra-fine dispersion technique creates a smaller particle size, which prevents filter blockage and doesn't adversely affect print heads.

Key Features of Uvijet

- Improved cure performance – no loss of adhesion at high print speeds.
- Improved finishing properties – the ink film is less prone to edge chipping when prints are guillotined, routed or folded.
- Improved adhesion to polystyrene, foam PVC and semi-rigid PVC.
- Multi-substrate performance for indoor and outdoor applications for up to two years.
- Less prone to curl on thin gauge PVC than other UV inkjet ink systems.
- Variable print finish increases application range.



Uvijet inks for the Inca Onset are supplied in 5kg boxes which ensures quick, clean and simple changeover, with no downtime.