HISTORY OF ONSET

Over 10 years of innovation and continuous improvement

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ONSET TODAY – BEST IN CLASS

Scale-able architecture

Dimatix printhead options

Ink range

Full-width array printing

Nozzle mapping

Inca Vision analysis

Printhead protection systems

Robot automation options

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MARKET TRENDS

Product developments and market trends

- Single-pass
- Upper-mid range
- Ceased development

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OBJECTIVE:

- Remain competitive
- Maintain print quality
- **Improve real-world productivity**
WHAT NEXT?

Inca Vision data analysis

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WHAT NEXT?

Inca Vision data analysis

Target to improve print and handling efficiencies
UNDERSTANDING HANDLING

Robot set-up

Vacuum table

UV light containment

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WHAT IS XHS?

Print up to 25% faster
Reduced operator intervention

Faster automation
More automated features

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ONSETX HS FEATURES

1. Increased print-speed
2. Reduced set-up time

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## ONSETX HS FEATURES

### Print Speed - Specification

<table>
<thead>
<tr>
<th>Automation</th>
<th>Machine</th>
<th>Pass Mode (100% RID Satin)</th>
<th>CURRENT PERFORMANCE</th>
<th>HS PERFORMANCE</th>
<th>Productivity Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hostert + Robot / Laytable + Robot</td>
<td>X3</td>
<td>4 Pass</td>
<td>180, 922</td>
<td>213, 1090</td>
<td>18%</td>
</tr>
<tr>
<td></td>
<td>X2</td>
<td>6 Pass</td>
<td>138, 707</td>
<td>159, 814</td>
<td>15%</td>
</tr>
<tr>
<td>Dual Robot</td>
<td>X3</td>
<td>4 Pass</td>
<td>180, 922</td>
<td>205, 1049</td>
<td>14%</td>
</tr>
<tr>
<td></td>
<td>X2</td>
<td>6 Pass</td>
<td>138, 707</td>
<td>147, 752</td>
<td>7%</td>
</tr>
</tbody>
</table>

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ONSETX HS FEATURES

SINGLE-CYCLE MODE

New 2-Pass mode

OX ink technology and optimised robotic automation opens up the opportunity for the 2-pass (Single-cycle) print mode

<table>
<thead>
<tr>
<th>Automation</th>
<th>Machine</th>
<th>Pass Mode (100% RID Satin)</th>
<th>Productivity (Beds/hr)</th>
<th>Productivity (m²/hr)</th>
<th>HS Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hostert + Robot / Laytable + Robot</td>
<td>X3</td>
<td>2 Pass Single-cycle</td>
<td>225</td>
<td>1152</td>
<td>283 1449 25%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>218</td>
<td>1116</td>
<td></td>
</tr>
<tr>
<td>Dual Robot</td>
<td>X3</td>
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<td></td>
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ONSETX HS FEATURES

1. Increased print-speed
2. Reduced set-up time
ONSETX HS FEATURES

30 second set-up

AUTOMATED ROBOT EFFECTORS

AUTOMATED UV SIDE-SHUTTERS

AUTOMATED TABLE ADJUSTMENT
30 second set-up

Real-World Benefits

1. Average number of substrate changes per day = 8
2. Average daily time lost to substrate change = 160mins
3. Average substrate change time = 20 mins

OnsetX HS 4 Pass @ 213 beds/hr...

Print capacity increases by:

284 beds per day
96,284 beds per year

Note: 339 working days
ONSETX PERFORMANCE – THEN AND NOW

X3 4 pass = 180 beds / hr
Job changes = 8
Change time = 10 minutes
Shift length = 8 hours

Total prints = Up to 1200 beds

+40%

X3HS 4 pass = 213 beds / hr
Job changes = 8
Change time = 30 seconds
Shift length = 8 hours

Total prints = Up to 1700 beds

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NEW DUAL FLEX AUTOMATION SYSTEM

Dual Flex – Bridgeless Laytable & Dual robot integration

• Developing workflow and automation to reduce "touch-time"

• Allowing operator to transition safely and seamlessly between ¾ automation and dual robot

• Customers with mix of Corrugated jobs & POP Sign & Display (Flexible/Semi-Rigid Media Handling)
NEW DUAL FLEX AUTOMATION SYSTEM

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OnsetXHS
FAST JUST GOT FASTER

THANK YOU