CASE STUDY



High Cotton USA

Getting the Details Right for Mission Critical, Financial and Healthcare Document Production

High Cotton USA Inc. is a service bureau that specializes in the design and production of full-color, highly regulated transactional documents for the Financial, Healthcare and Utilities sector.

In the South, the term 'High Cotton' is synonymous with well-being and prosperity. For more than 50 years, the success of High Cotton USA came from ensuring that its clients also flourish, primarily through delivering them a fast, accurate and secure outsourced print and mail service. Living by their tagline - 'Get the Details Right', High Cotton's ethos is to always maintain the highest levels of document accuracy and integrity throughout their print and mail process. So when they took delivery of their two new SuperWeb WEBJet 200D color inkjet digital web presses, ensuring that every document produced was error free was of paramount importance.



SPEED & ACCURACY

High Cotton's clients were demanding that their transactional documents needed to work harder and to go beyond just being informative. They wanted them to be more engaging, able to up-sell products and services (Transpromo), reinforce the brand and build loyalty. In 2014, the purchase of the WEBJet 200D color inkjet presses enabled High Cotton to provide an end-to-end, full-color statement printing service, with the capability, flexibility and speed required to meet this growing demand from their customers.

The WEBJet 200D press, incorporating two Memjet 17.5" inkjet heads, is capable of printing two full-color pages, side by side, on white paper, in both simplex and duplex modes and at speeds exceeding 330 fpm. A slit and merge finishing device is used to create a l-up document path. This allows the web to be cut into discrete sheets that are perfectly sequenced for processing on a Pitney Bowes FPS inserter.

"Moving to a white paper, full-color printing environment, brings us enormous benefits in eliminating pre-printed shells, streamlining our production workflows and improving our SLAs" said David Cowley, Director of Operations at High Cotton. "However, when composing, printing, finishing and enclosing highly personalized, confidential documents containing sensitive financial, healthcare or private information, any data breaches due to human error or equipment failure, can have serious consequences for us and our clients."

CHALLENGES

In such a dynamic document production environment, every page can be different to the next and page counts can vary for each mail-piece. Any software glitches during the document composition, PDF RIP or when configuring the Memjet inkjet heads at the printer, can result in alignment issues causing page sequencing errors and the printing of the front and back pages to go out of sync.

Under these conditions, operators stood little chance of detecting print defects which can quickly produce large amounts of waste. Moreover, if the defective print goes out undetected and uncorrected, it could result in expensive reprints, job reruns or worse, degrade client confidence and the potential future loss of business.

Being obsessive about getting all the details right, High Cotton had to mitigate the risk by ensuring that every document, leaving their print factory was 100% correct.

"Our clients operate in a highly complex, data oriented business environment. They depend on us to make sure that every document we produce is flawless in every respect. Focusing on getting the details right, so that our clients don't have to, is why we have been in business for over 50 years," said Tommy McGahey, President and CEO of High Cotton. "To fulfil our contractual commitments and to comply with regulatory and data privacy laws, we had to invest in the latest print inspection technology to constantly check and log our production processes at all times."



CUSTOMER PROFILE

- In Business for over 50 years, High Cotton USA Inc. is a leading provider of highly sensitive, regulated transactional print and mail services
- Clients include energy, financial services, healthcare/medical and debt collection agencies throughout the United States
- With print factories in Birmingham, AL and Dallas, TX, they have 85 staff and outputs over 9 million mail pieces per month.

BUSINESS CHALLENGES

- New SuperWeb WEBJet Inkjet printer purchased to print highly regulated, sensitive financial & healthcare documents
- To maximise throughput, two pages are printed side by side across 17" web and in duplex
- Glitches in the software or the equipment could cause page sequencing issues and pages on front and back to go out of sync
- High Cotton concluded they needed a camera inspection system to verify document integrity including page sequencing and front and back page synchronisation.

SOLUTION SUMMARY

- Implemented DISCOVERY Multiscan incorporating 4 GigERead areascan cameras 2 on each side of the web
- DISCOVERY Multiscan reads "Top of page" marker and an 8 character sequence number on every page to verify correct page position and sequence. An "End of job" marker resets DISCOVERY Multiscan to enable continuous back to back job printing without disruptions
- If discrepancies or errors are detected, DISCOVERY Multiscan issues an audible alert or optionally stops the printer to allow the operator to investigate/correct problems. All errors are logged
- This error log file is subsequently used by DISCOVERY Multiscan on the inserter system to automatically out sort mail-items in error and initiate its reprint in order to maintain 100% document integrity.





CASE STUDY



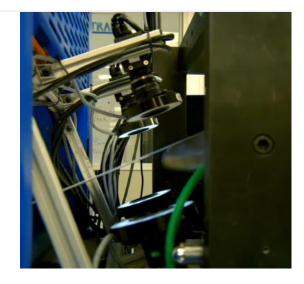
SOLUTION

High Cotton had already implemented numerous camera based integrity management systems from Lake Image on their existing Pitney Bowes FPS and Bell & Howell Inserters. "We were very impressed with the reliability, speed and accuracy of the cameras currently on our Inserter lines, so Lake Image Systems were an obvious choice for us when looking for a solution," said Cowley.

Lake Image Systems implemented their DISCOVERY 4 camera integrity management system on the color press, to inspect and verify the output according to High Cotton's requirements. The four GigE area scan cameras, two on each side of the web, were used to read the "Top of Form" marker and an 8 character document sequence number, simultaneously from all 4 pages. A DISCOVERY Multiscan system then performed a front and back page positioning check and verified that the page sequences were correct.

At the end of every job, a printed marker instructed DISCOVERY Multiscan to reset, enabling High Cotton to print multiple jobs, back to back without stopping the press or manually resetting the inspection system - greatly improving the productivity, throughput and their adherence to SLAs.

If a front and back mismatch or out of sequence page is detected, DISCOVERY Multiscan immediately issues an audible alarm to alert the operator of a possible error. If multiple errors are detected or if they reach a specified threshold, then the press can be stopped for further investigation, preventing further loss in production and waste. A full audit log is kept



throughout the process and is integrated with the DISCOVERY Multiscan system on the Inserters. This allows the mail-pieces in error to be out-sorted and flagged for a reprint — ensuring that document integrity is always being maintained.

IMPACT

Today, this investment has allowed High Cotton to mitigate the risks associated with producing regulated, highly sensitive documents with total confidence, and has given them the assurance to develop and expand their full-color statement printing business, in a highly competitive services sector.

Furthermore, by linking the Lake Image systems on both the WEBJet press and on the Pitney Bowes FPS inserters, has enabled High Cotton to integrate their Print and Mail processes with obvious benefits. "We can print at full speed knowing that any suspect mail-pieces detected by the system, will be automatically out-sorted at the inserter and reprinted," explained Cowley. "Not only has this streamlined our processes and improved our productivity, more importantly this has given us a significant boost in our capacity to take on more complex, profitable print work."

Following the success of this project, High Cotton is considering this solution for their second WEBJet 200D press, situated at their Texas print facility. When it comes to document integrity, this solution has helped to strengthen High Cotton's reputation as a company that can "Get The Details Right" where it really matters.

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BUSINESS BENEFITS

- Automating the verification of page sequencing and front and back page matching, in real-time, has enabled faster, error free print production, whilst reducing costs
- DISCOVERY Multiscan has mitigated the risks associated with breaching privacy laws and High Cotton's contractual obligations
- DISCOVERY Multiscan has given High Cotton the confidence to take on more complex, profitable outsourcing work
- High Cotton has strengthened its reputation as a competent printer for highly regulated, privacy sensitive applications.