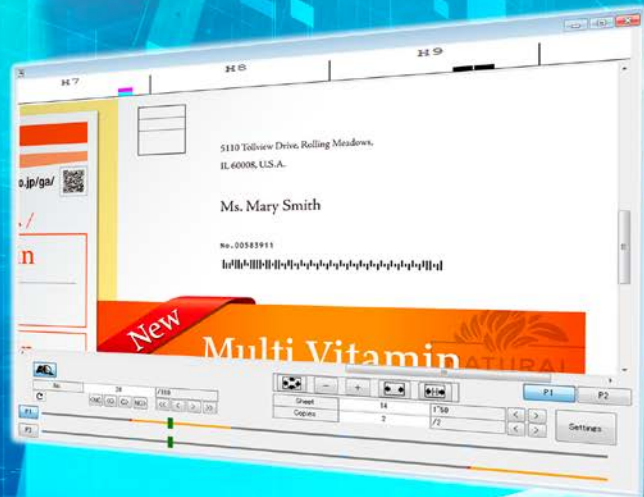# SCREEN

CREATING A FUTURE IN PRINT

JetInspection Series

for **Truepress** *Jet520* **NX** series

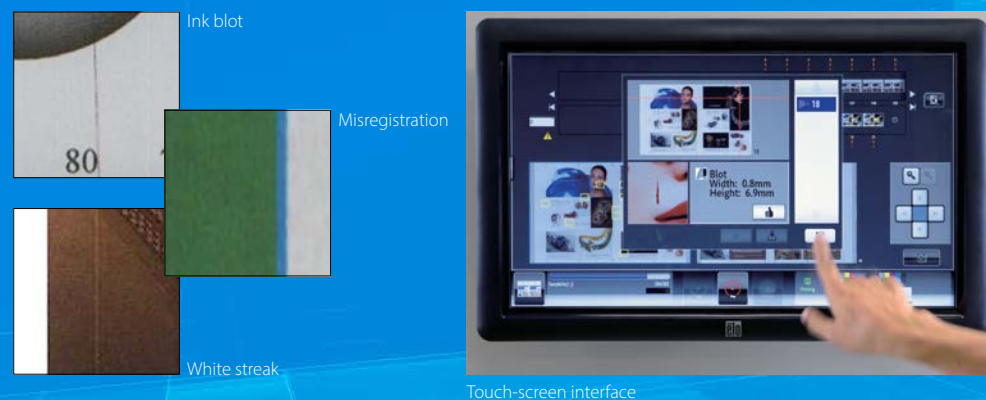## High Resolution Scanning and Inspection Solutions

Ensures Optimal Print Quality and Results

Adding Value to Your Print with JetInspection

The Truepress Jet520 series of standard and high definition printers, print beautifully, economically and consistently but that is not always enough. The JetInspection solution brings invaluable supporting functionality such as:
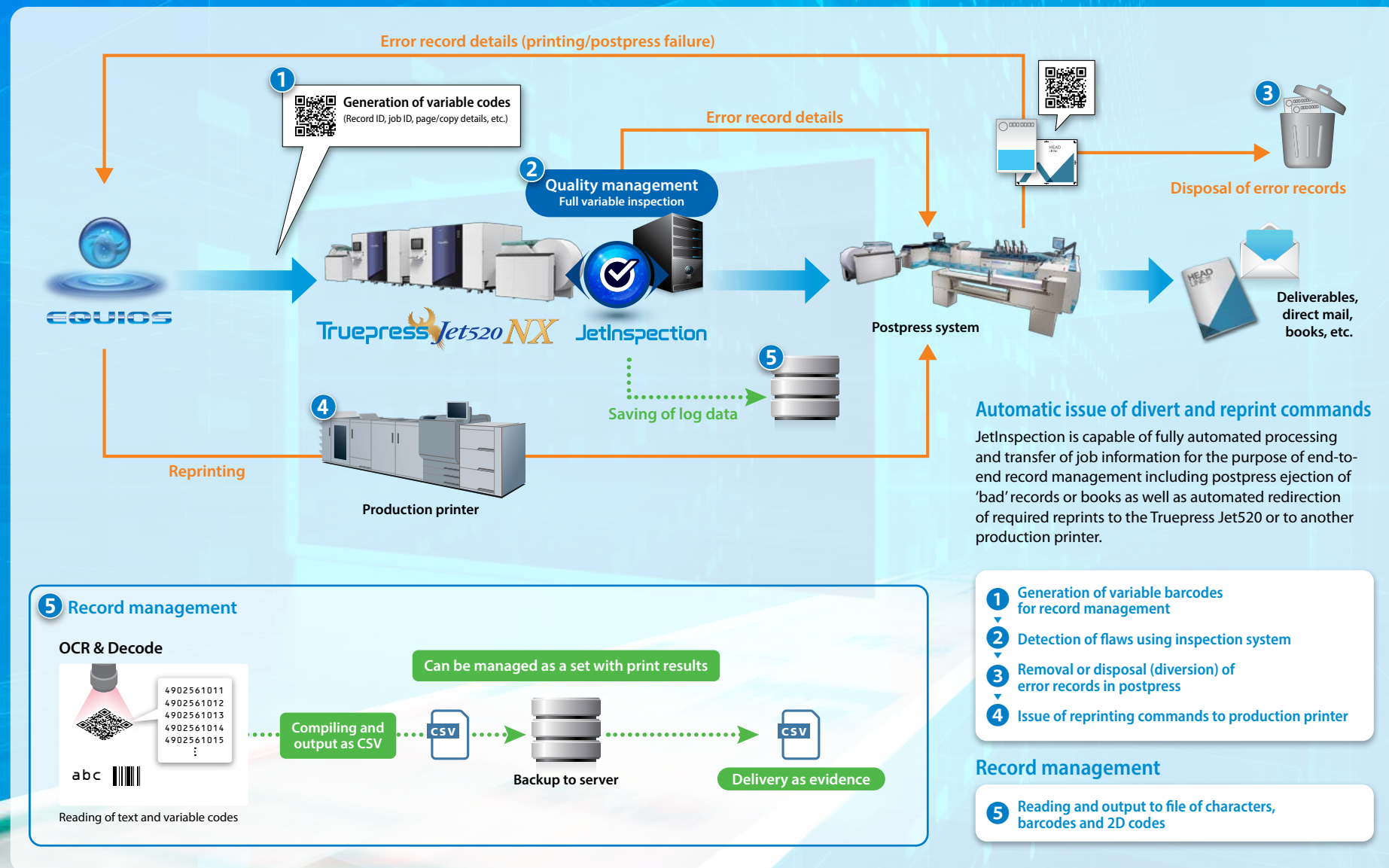
- Real time print monitoring
- Printed image capture for a digital record of what's been printed
- Real time printed image to PDF comparison
- Barcode and OCR data capture and database storage

Ink blot
Misregistration
White streak
Touch-screen interface

High-precision detection of flaws

JetInspection ensures high-precision detection of many different types of flaws, including missing dots, blurred or fragmented characters as well as discoloration and paper contamination. It also supports inspection for overprinting on preprinted offset shells. JetInspection digitally merges RIP'ed and background image data and detects anything missing or 'extra' that's not supposed to be printed.

This solution provides support for achieving more precise printing. Its ability to stand sentry, based on preset thresholds, for print accuracy also enables it to adapt to diverse quality requirements. The system can be integrated with a rotating warning lamp for high visual notification.

Error record details (printing/postpress failure)

① Generation of variable codes (Record ID, job ID, page/copy details, etc.)

Error record details

② Quality management Full variable inspection

③ Disposal of error records

EQUIOS

Truepress Jet520 NX   JetInspection

Postpress system

Deliverables, direct mail, books, etc.

⑤ Saving of log data

④ Reprinting

Production printer

Automatic issue of divert and reprint commands

JetInspection is capable of fully automated processing and transfer of job information for the purpose of end-to-end record management including postpress ejection of 'bad' records or books as well as automated redirection of required reprints to the Truepress Jet520 or to another production printer.

⑤ Record management

OCR & Decode

4902561011
4902561012
4902561013
4902561014
4902561015

abc

Reading of text and variable codes

Can be managed as a set with print results

Compiling and output as CSV → CSV → Backup to server → CSV → Delivery as evidence

① Generation of variable barcodes for record management
② Detection of flaws using inspection system
③ Removal or disposal (diversion) of error records in postpress
④ Issue of reprinting commands to production printer

Record management

⑤ Reading and output to file of characters, barcodes and 2D codes

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Full Variable Inspection Solution

Quality management

The RIP'ed data and final output results undergo a full surface comparative inspection, enabling all data on each sheet, including variable data, to be checked in real time. OCR and barcode reading (decoding) are also performed at up to four items per page.

Solution to confirm the different content on each page is printed correctly

Checking of variable contents	Matching of target customers and advertising, matching of front and back sides, etc.
Checking of print quality	Paper discoloration, ink blotting, nozzle clogging, misalignment between process colors, etc.
Logging of output results	Decoding and logging (CSV) output of text, 1 and 2D barcodes, etc.

Record management

PDF information such as a printed ID number or recipient name can be read and used to manage pages as individual records. Additionally, variable barcodes can be inserted in the trim area for record management, allowing for a streamlined automated workflow that includes intelligent postpress systems. This helps to significantly improve production efficiency.

In book applications, variable barcodes including folding, postpress and copy details can be inserted via EQUIOS' built in Variable Barcode functionality. Based on the results of subsequent inspections, books with flaws can then be diverted by the postpress process.

Evidence Solution

Enhanced reliability using print result data

OCR & Decode

Text information such as names, addresses, numerical values as well as 1 and 2D barcodes can all be decoded and saved as log data. This information can be written to a CSV file, enabling it to be used on virtually any upstream system as evidence of what and when printing took place.

Supported codes	
Text:	OCR-B
Barcode:	Code39, Code128, NW-7
2D code:	QR, DataMatrix, PDF417

Reduction of Down Time

Speeds setup for new paper and corrections for substrate inconsistency

High Resolution Scanning System

JetInspection uses highly sensitive scanning technologies to perform precise printhead adjustments that are essential for quality control in inkjet presses. The system greatly reduces the time needed for correction work that is required when setting up a new paper and a paper that is not printing perfectly across the web. This reduces the time that your printer is not printing.

Main adjustment functions	• Density uniformity • Nozzle clogging checks • Printhead alignment

The system applies average values taken from multiple sheets to eliminate quality variations, significantly improving correction accuracy.

Specifications

Barcode reading function	2D barcode: QR, Data Matrix, PDF417 (black 100%) Placement angle: 0, 90, 180, 270 degrees Background: white (The necessary blank area around each code is based on the quiet zone of the code concerned.)
Log	Acquired through the user interface
Decode results	Saves all results and outputs them as a CSV file
Power requirements	PC: Single phase 200 to 240 V AC, 15 A x 1 (installed in the rack for EQUIOS) Camera: 24 V DC, 600 W (supplied from printer)

SCREEN Graphic Solutions Co., Ltd.

The QR code on the right can be used to check whether this brochure is the latest version.

We reserve the right to alter product design and specifications without prior notice.

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Printed by the Truepress Jet520HD+ / SC inks