Digital Print Finishing

hunkeler

STANDARD

Excellence in Paper Processing

STANDARD

Hunkeler Control Platform

The Hunkeler Control Platform provides a comprehensive solution for production quality and content control in digital printing. The platform consists of two levels: one for quality and content control with vision systems and tracking solutions, and one for machine operating data with Hunkeler Data Capture and an optional Analytics tool. The Hunkeler Control Platform enables seamless integration into existing production solutions, allowing companies to increase productivity, minimize errors, and ensure high product quality.

Production quality control

Hunkeler Web Inspection WI8

With the Web Inspection WI8 we can check the quality and content of the printing on each page in terms of colors, positions, contours, smearing, jet-outs, data validation, etc. The Web Inspection WI8 scans the entire width of the paper web, acquiring at full speed high-resolution images on the full surface of each page and comparing them to a related "golden sample". Print quality and content errors are identified at an early stage, thereby triggering immediate action and reducing both downtime and wasted paper.
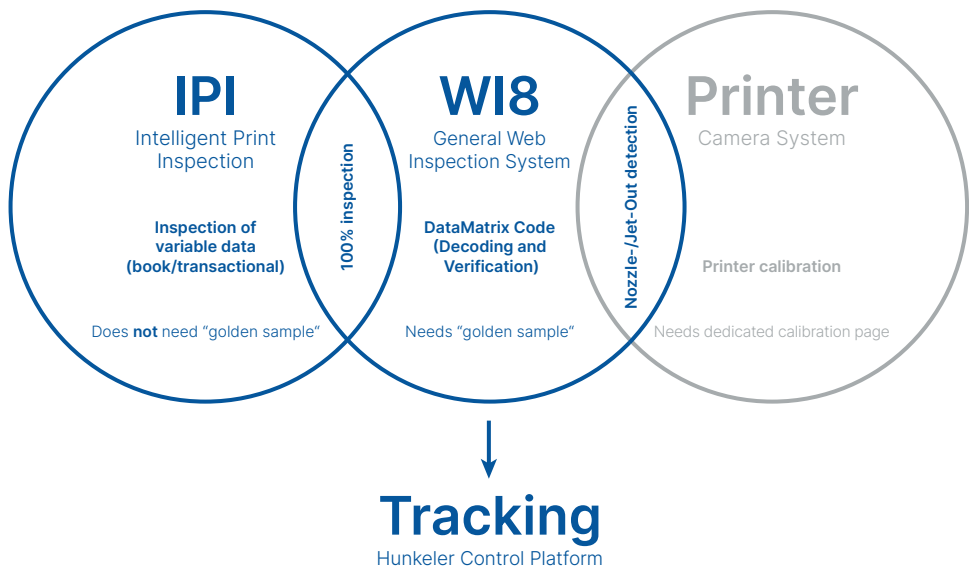
IPI INTELLIGENT PRINT INSPECTION

The optional Intelligent Print Inspection (IPI) enables a new way of performing print inspection. IPI uses the raw print data directly from the printer controller to compare to the actual printed image, eliminating the need for a "golden sample".

DYNASCAN

Hunkeler's versatile dynamic function DynaScan offers dynamic scanning of variable sheet lengths with automatic changeover during ongoing production. The result is noticeably higher flexibility and profitability.

CIS Scan bars

Controller box

Touchscreen for operation

Watch video:

IPI

Intelligent Print
Inspection

**Inspection of
variable data
(book/transactional)**

Does **not** need "golden sample"

100% inspection

WI8

General Web
Inspection System

**DataMatrix Code
(Decoding and
Verification)**

Needs "golden sample"

Nozzle- /Jet-Out detection

Printer

Camera System

Printer calibration

Needs dedicated calibration page

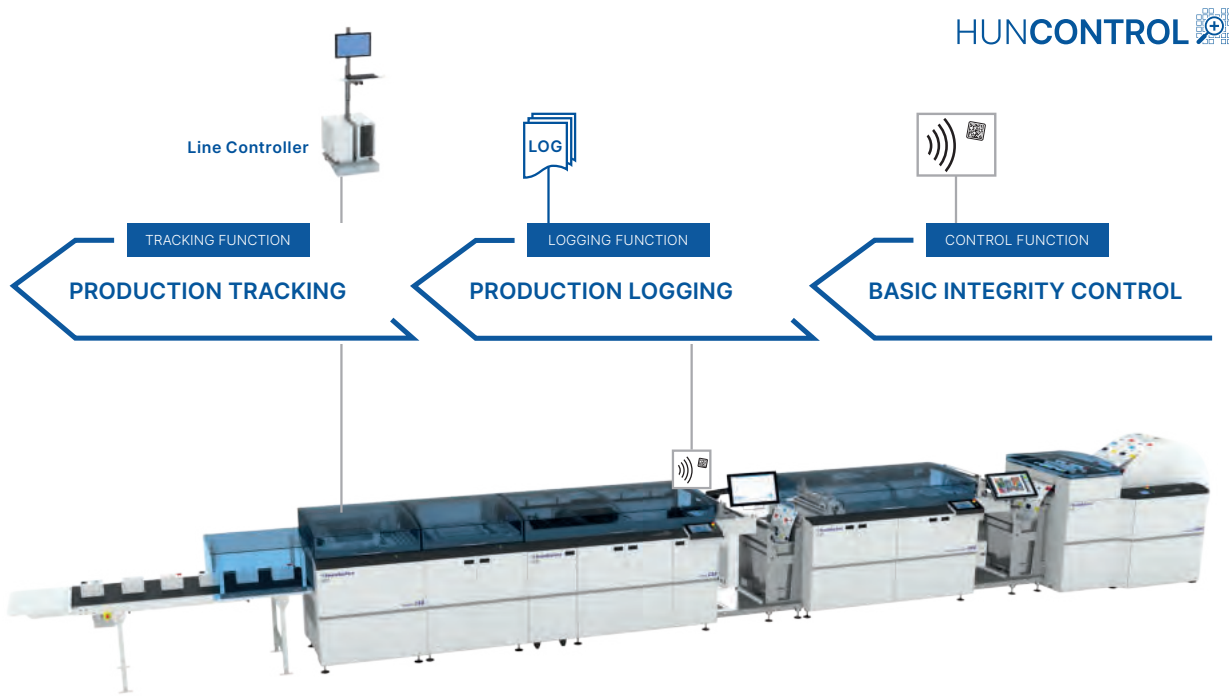## Tracking

Hunkeler Control Platform

Control and Tracking Solutions

The production tracking monitors ongoing production in terms of completeness and accuracy. The consistency of ongoing production is constantly compared with the target data and missing pages or duplicates are identified. Defective products can be automatically fed out of the production workflow and missing documents reprinted, thereby facilitating fully automatic operation, and eliminating the need for manual intervention. Standardized interfaces enable communication with superordinate systems (host computer) and supports monitoring across multiple lines and even multiple production sites.
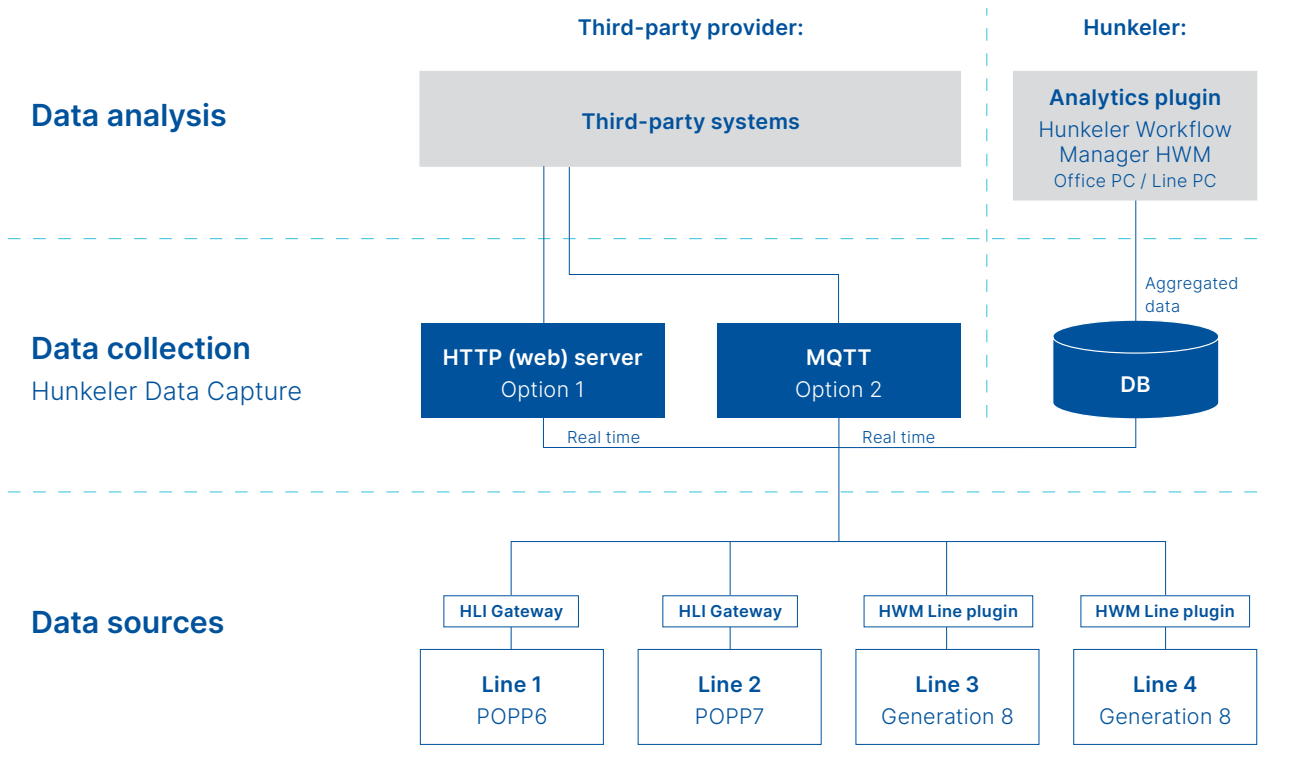
The available products include Basic Integrity Control, Production Logging and Production Tracking.

HUN**CONTROL**

Line Controller

LOG

TRACKING FUNCTION	LOGGING FUNCTION	CONTROL FUNCTION

PRODUCTION TRACKING | **PRODUCTION LOGGING** | **BASIC INTEGRITY CONTROL**

Machine operating data

Hunkeler Data Capture and Analytics

Hunkeler Data Capture enables automatic data capture from various Hunkeler solutions of different product generations. The collected data can then be analyzed in a user-friendly dashboard using Hunkeler Analytics to improve process and machine optimization as well as overall equipment efficiency (OEE). Additionally, the captured operating and machine data can also be passed on to third-party vendors via standardized interfaces.

Third-party provider:　　　　　**Hunkeler:**

Data analysis

Third-party systems	Analytics plugin Hunkeler Workflow Manager HWM Office PC / Line PC

Aggregated data

Data collection
Hunkeler Data Capture

HTTP (web) server Option 1	MQTT Option 2	DB

Real time　　　　　Real time

Data sources

HLI Gateway	HLI Gateway	HWM Line plugin	HWM Line plugin
Line 1 POPP6	**Line 2** POPP7	**Line 3** Generation 8	**Line 4** Generation 8

Watch video:

Hunkeler Workflow Manager

Our software system for production planning and process optimization
With the Hunkeler Workflow Manager HWM, Hunkeler modules and solutions are networked with each other. With this software system, production jobs can be optimally prepared and produced. The HWM plugins support the user in creating production jobs, in collecting and analyzing machine operating data, and for service assistance with Remote Assist.

The Hunkeler Workflow Manager HWM with the installed HWM plugins support the fast and easy creation of productions by a graphical display of the print layouts including register marks and control codes. The product-oriented job definition can be created directly on the solution and sent to the corresponding solutions using Production manager. This makes setup work more efficient, and repetitive productions can be selected by the Production manager and reproduced directly.

The following HWM plugins are available:

Production Light
Allows the definition of a production for a single Generation 8 line.

Production Pro
Allows the definition of productions and jobs for multiple Generation 8 lines.

Line
Allows to collect Generation 8 operating data.

Analytics
Allows to display the operating data collected.

Assistance
Enables remote maintenance via Remote Assist and the display of DataMatrix images.

hunkeler for STANDARD

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