

Quality control and color management

Automated quality control and color management workflow that captures print samples, analyzes color accuracy against standards, and automatically adjusts press settings to ensure consistent output quality throughout production runs.

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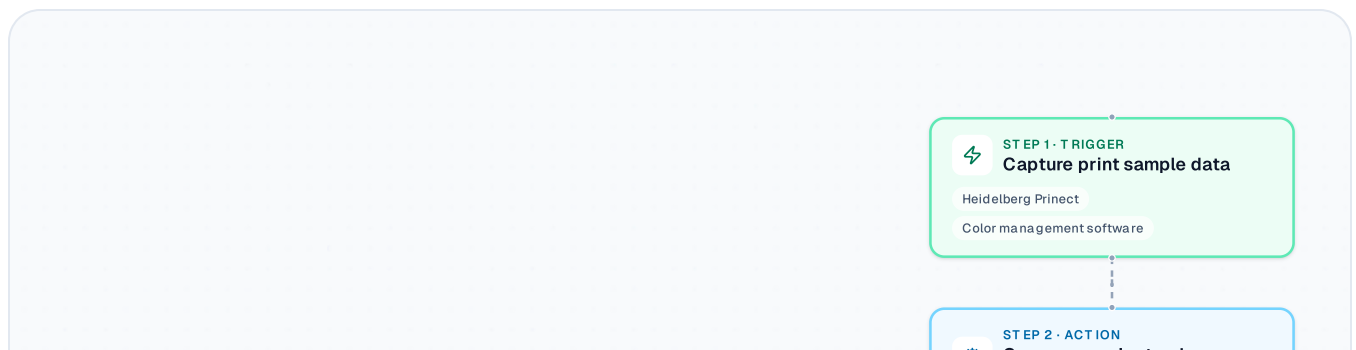


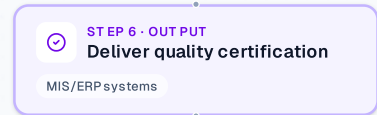
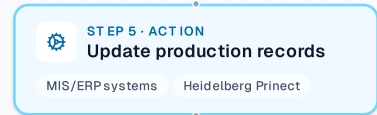
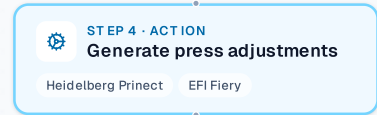
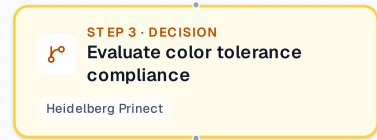
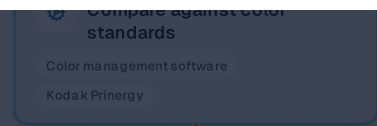
WORKFLOW TRIGGER

Print job reaches first quality checkpoint during production run

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

Capture print sample data

Automated spectrophotometer captures color measurements from printed sheets at designated control strips. Data is immediately digitized and fed into the quality management system.

Heidelberg Prinect

Color management software

2

 ACTION

Compare against color standards

System automatically compares captured color values against approved proof standards and ISO specifications. Calculates Delta E values and identifies any color deviations.

Color management software

Kodak Prinergy

3

 DECISION

Evaluate color tolerance compliance

Workflow branches based on whether color measurements fall within acceptable tolerance ranges. Routes to correction or approval paths accordingly.

Heidelberg Prinect

4

 ACTION

Generate press adjustments

AI calculates optimal ink density and color curve corrections needed to bring colors back within specification. Automatically generates adjustment recommendations for press operators.

5

 ACTION

Update production records

Quality control results and any adjustments made are logged in the MIS system. Creates digital quality report with before/after measurements and timestamps.

MIS/ERP systems

Heidelberg Prinect

6

 OUT PUT

Deliver quality certification

Generates automated quality approval certificate with color measurement data and compliance verification. Triggers continuation of production run or quality hold notification.

MIS/ERP systems



Outputs

- Quality approval certificate with color measurements
- Press adjustment recommendations
- Production quality log entries



Key Metrics

- Color accuracy Delta E values
- Quality checkpoint pass rate
- Press adjustment frequency



Tools & Integrations

- Heidelberg Prinect
- Color management software
- Kodak Prinergy
- EFI Fiery
- MIS/ERP systems

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