Prinect

Inpress Control 2

HEIDELBERG

The spectrophotometric inline measuring system for maximum productivity • Prinect® Inpress Control 2 automatically measures and controls color and register on the fly and at any speed. Integrated directly into the press, the measuring unit measures process colors, spot colors, and register in the print control strip. Any corrections required are forwarded directly to the Prinect Press Center™ press control station for adjustment. As the press does not need to be stopped for either makeready or monitoring of the production run, Prinect Inpress Control 2 achieves maximum productivity. Print shops with frequent job changes, short runs, and standardized jobs benefit particularly from the strengths of this system. Prinect Inpress Control 2 makes their production cost-effective and ensures reliable quality. Inking is also extremely even and consistent throughout the run.

The inline measurement and control system is available for Speedmaster® XL 75, Speedmaster SX 102, Speedmaster CX 102, Speedmaster XL 106, Speedmaster XL 145, and Speedmaster XL 162.

Operation of Prinect Inpress Control 2 is integrated in Prinect Press Center. Color and register are automatically measured and controlled on the fly.

Precise color measurement at any speed

The spectrophotometric measuring unit in the last printing unit – and also the one before the perfecting device on perfecting presses – monitors each sheet highly accurately on the fly and at any speed. The spectrophotometric measuring technology recognizes even the most minor color deviations in process and spot colors. Register is also monitored and adjusted if necessary.

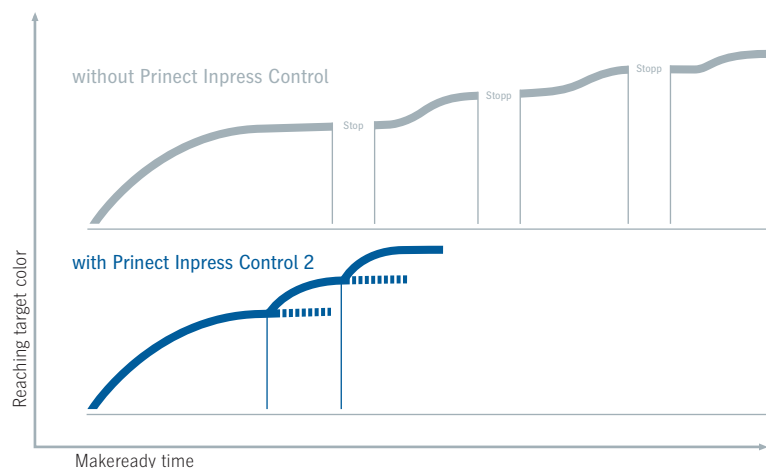**Extremely fast makeready for maximum productivity** • Makeready times are cut significantly, as the press no longer has to be stopped for sheet pulls and measurements. Both inking up and registration are also faster. And because there are no more press stops, waste is also reduced.

Continuous production monitoring • Measurement and control during production enables continuous monitoring of quality. Color deviations and register problems become a thing of the past. The fully automated color control system ensures maximum stability over the entire print run.

Comprehensive reporting • Prinect Inpress Control 2 records all quality parameters, measuring results, and the number of measuring processes in a print job. The data can be analyzed using various job-specific parameters by Prinect Pressroom Manager®, the Prinect workflow's information and control center. Its detailed reports are suitable both as a basis for internal analyses and for providing customers with comprehensive proof of print quality.

The time you save during makeready

Makeready times are cut significantly, as the press no longer has to be stopped for sheet pulls and measurements. Inking up is also much faster.

without Prinect Inpress Control

Stop   Stopp   Stopp

with Prinect Inpress Control 2

Reaching target color

Makeready time

2

Key functions and benefits at a glance:

- Spectrophotometric inline measurement of process and spot colors in the print control strip
- Automatic register control and adjustment
- Faster inking up and less waste, as the press does not need to be stopped for either makeready or monitoring of the production run
- High color stability thanks to continuous production monitoring
- Simple operation via the touchscreen at Prinect Press Center
- Integrated Pantone® color database
- Comprehensive quality reporting
- Optimized measurement of metallized materials and transparent substrates (foils) with opaque white below the print control strip
- Handheld spectrophotometer with full range of functions
- Print control strips with integrated die cutting marks

The touchscreen at Prinect Press Center clearly shows even the most minor deviations in process and spot colors.

Technical Data

Availability	Speedmaster XL 75, Speedmaster XL 106, Speedmaster SX 102, Speedmaster CX 102, Speedmaster XL 145, Speedmaster XL 162
Max. no. of machines that can be connected	1
Measuring location	Print control strip
Measuring speed	Continuous
No. of controllable colors on each side of the sheet	10
Minimum size of measurement patch (W × H) in the print control strip	3.25 mm × 4 mm (0.13 in × 0.16 in)
Register measurement	Integrated
Color management/Mini Spot workflow	–

Prinect Inpress Control 2 ensures standards-compliant measurement (spectrophotometric, D50, 2°, 45°/0°)

Netprofiler – the software for independent calibration.

Netprofiler is the calibration software from Heidelberg for spectrophotometric color measurement systems such as Prinect Inpress Control 2. It minimizes negative effects on color reproduction by correcting deviations in color data and using calibrated color references to adjust measured values to standardized target values. Calibration can be performed independently at the print shop without external service engineers.

Regular calibration of color values • Heidelberg is the only manufacturer to offer print shops the possibility of performing colorimetric calibration on their color measurement systems. This is a great advantage for true-color production because incorrect color values are often the result of changes to color data in measuring equipment that can occur after a certain period of operation without recalibration. Netprofiler ensures that the settings of the color measurement systems always match the certified standard factory settings and that the device is working with optimum accuracy. This is the only way to prevent color deviations in production and operate several measuring devices reliably at one company.

Fast and systematic coordination • Netprofiler provides binding documentation of all measuring results – a significant benefit for coordination with customers and standardized printing within the narrow tolerances of ISO 12647-2.

Netprofiler functions and benefits at a glance:
- Colorimetric calibration
- Optimum adjustment of color measurement systems at all times
- Fewer complaints thanks to color fidelity
- Compliance with ISO 9000
- Identical colors across all sites
- Reliable, certified quality

Three steps to the right result.

1 Checking the tolerance

Prinect Inpress Control 2 checks its own measuring accuracy using a reference color chart. The result shows whether the measurement is within the required tolerances.

2 Calibration

After this check, Netprofiler automatically starts the calibration process, i.e. it corrects deviations from target values.

3 Certification

If the print shop has an online Remote Service connection to Heidelberg Systemservice, a detailed report is automatically prepared. A certificate confirms the device has been checked as specified by the manufacturer.