Express InkScript is a comprehensive solution for ink key presetting. It reads 1-bit tiff file from RIPs, analyzes and generates CIP3 files for the ink control unit. It can also read CIP3 data files in from selected front end system, ready for the ink control unit to set the ink key value on the press. From the 1-bit tiff file, it calculates the ink density and output in PDF file or print out on Laser printers for users to base on the hard copy to preset their presses. There is a server-client option which is most flexible for ink key presetting on a multiple presses environment. Together with IS Connect or IS Connect Loop option, accurate ink key value is delivered to match with customer's press characteristics during production. It works with wide range of printing consoles. Express InkScript enhances your press productivity by shortening the setup times, reducing paper and ink wastage, and turning your press tightly integrated with modern production system.

Pressroom Family

Online Ink Key Control for Multiple Printing Presses

Express InkScript

Overview

Presetting your presses is one of the most important aspects of the digital prepress workflow. To accurately preset your press hence save valuable setup time, and reduce wastage, resulting in cost saving and increase productivity. Express InkScript reads CIP3 files or 1-bit files generated from Express RIP, analyses the data, and generates CIP3 files and other ink key control files to your press computer directly. Express InkScript also generates ink density in PDF file format or print it out on Laser printer which press operators can preset their presses manually.

Presetting your presses usually means adding a press computer which read CIP3 files. Most printers with older presses do not have this function and their only choice is to set all the ink value by hand. Now with IS Connect and IS Connect Loop option, your Ink Control unit can now become an online unit to the front end system, receiving CIP3 data automatically. Express InkScript communicates with most common Ink Control unit directly and turns your presses into a modern production workflow. The IS Connect Loop even enables the automatic measurement and evaluation of control strips, as well as the continuous transmission of computed correction value directly to presses.

Highlights

- Save press setup time
- Reduce the amount of paper and ink wastage
- Faster and safer than hardware plate scanner
- Generate CIP3 PPF using 1-bit digital file
- Export ink density value in PDF and windows printer output
- Support Express RIP option for PS, PDF, and EPS input
- Support IS Connect option for online ink key presetting
  - connect printing machines from nearly all manufacturers
  - replace Heidelberg/MAN Roland's interface card
  - replace magnetic strip readers by safety data transmission
  - enable calibration on ink linearization and ink duct values
  - user friendly, run on windows platform
- Support Visual Proof option for soft-proofing
- Tightly integrate with Express WorkFlow 3

compose

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Features and Benefits

Generate Production Ready Ink Duct Data

Express InkScript is a comprehensive tool to generate Ink Duct data. It reads 1 bit raster data from Express RIP and prepress workflow to generates ink coverage information or CIP3 files for presetting your presses.

Wide Range of Input Formats

Express InkScript reads CIP3 and screened files generated by most major RIP readers, including 1-bit TIFF (CCITT G4, Packbits, LZW compression) and Compose Netflow Raster formats. Support direct PostScript, PDF, and EPS files input with Express RIP option.

Export CIP3 PPF file for Modern Presses

Express InkScript can also generate CIP3 PPF files (support v2.0, v2.1 and v3.0, Binary and ASCII encoding; Forward, Reverse and Harlequin Extent alignment scheme) for all printing machine consoles using CIP3 data as input format can also be connected to Express InkScript.

Easy Job Handling

Express InkScript provides a powerful tool for job handling, included:

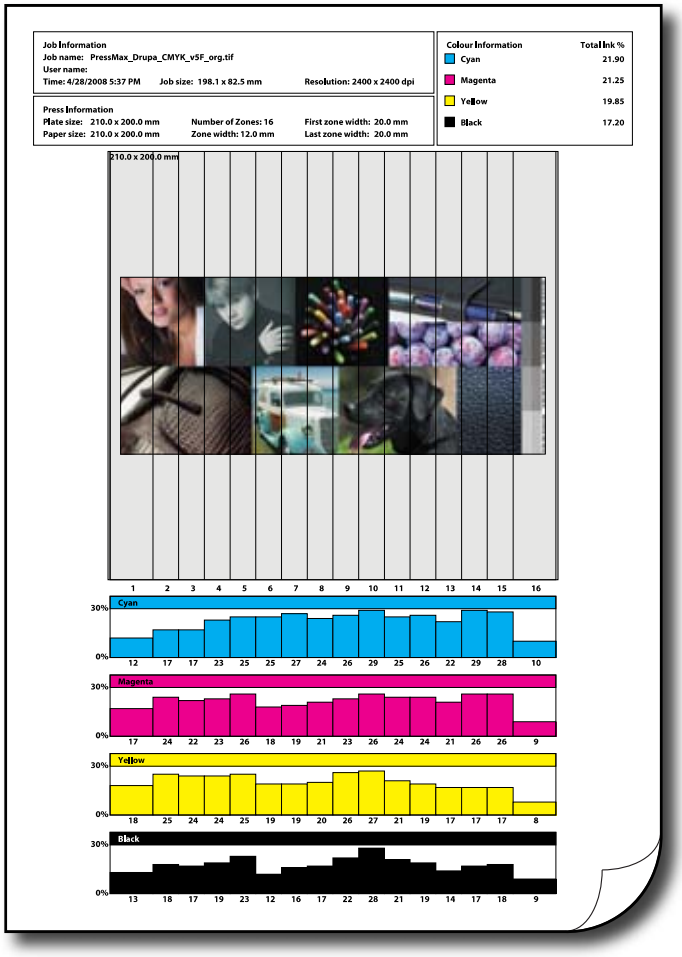
- Job centering or off-centering on paper or plate
- Job rotation by 90, 180 and 270 degrees
- Adjusting first and last zones with different zone width
- Zone calculation from Left-to-Right/Top-to-Bottom or Reverse
- Default minimum ink level for ink ducts
- One or a combination of output formats for the same job
- Crop off plate control strip from input file to avoid its influence on the final ink density

Enhance Connection with IS Connect / IS Connect Loop

Express InkScript outputs DI format files to IS Connect / IS Connect Loop. If only CIP3 file is available for ink key presetting, Express InkScript analysis and calculate to generate DI format file for IS Connect / IS Connect Loop.

Export PDF and Print Out for Operators

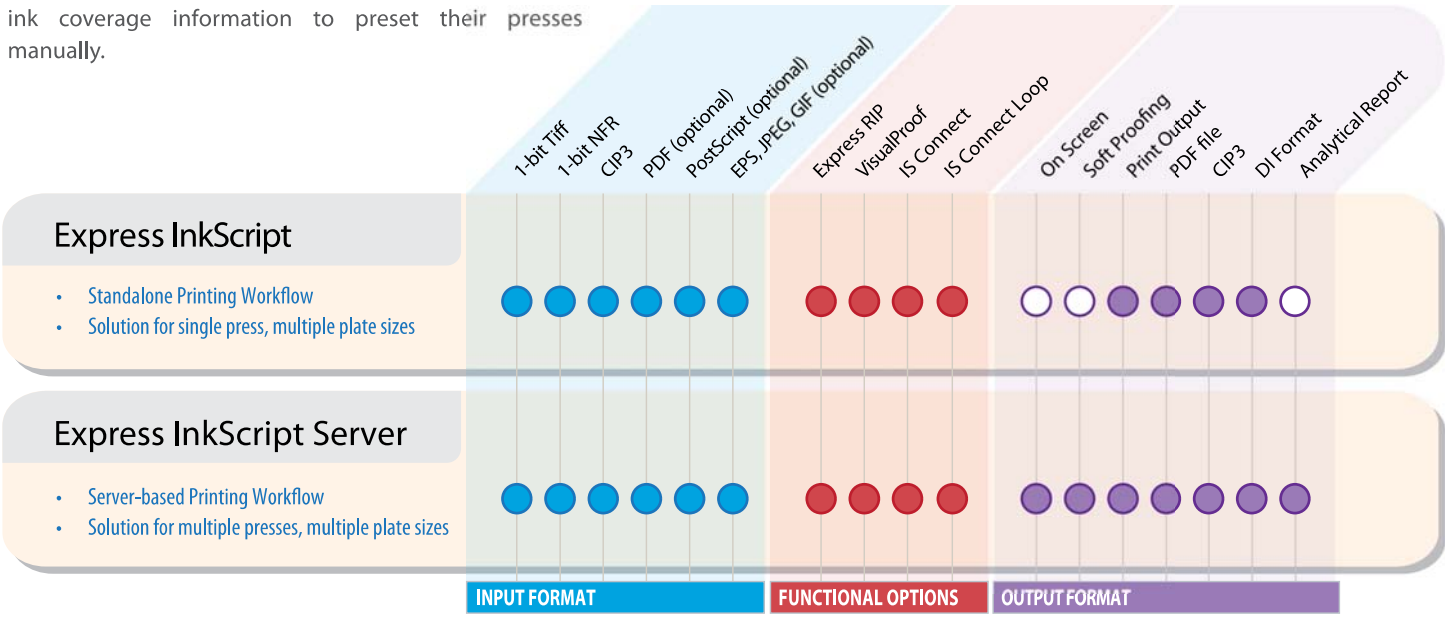
For other presses which cannot read CIP3 file, Express InkScript can also generate the ink density data in PDF file format or print it out on Laser printer, providing press operators with an accurate picture of the ink coverage information to preset their presses manually.

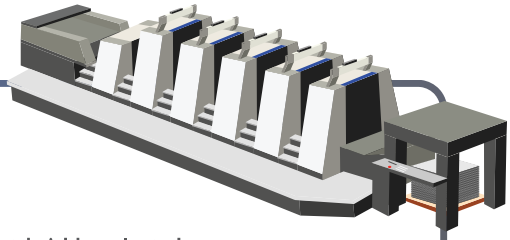


Express InkScript output PDF or print out on laser printer for press operator to setup Ink Key manually

Tightly Integrate with JDF Supported Express WorkFlow

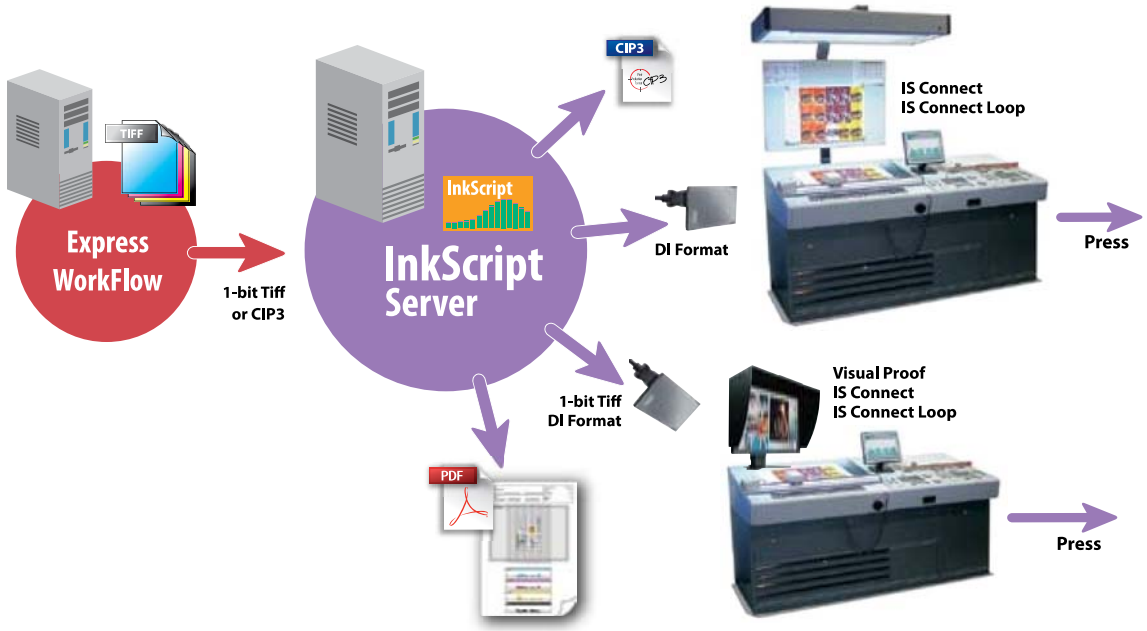
Express InkScript is available as a standalone version for prepress server. It can also tightly integrate into Compose Express WorkFlow – a powerful but easy-to-use workflow management tool for prepress industry. Latest version of Express WorkFlow is fully supporting JDF import and JDF tickets to ensure correct handling of each job at every stage of the production process. It also allows production instructions such as CMYK ink optimization, ripping preference, imposition method, folding instruction, binding and guillotine instruction, etc. to be specified in compliance with the JDF protocol.





Express InkScript Server

- Manage high res 1-bit Tiff, CIP3 and Ink Key Control file saving at the server.
- Easy for press operator to retrieve the job data from the server to check the soft proof and collect the ink key value to the presses.
- Generate ink density in PDF file format or print-out on laser printer for presetting the presses manually.

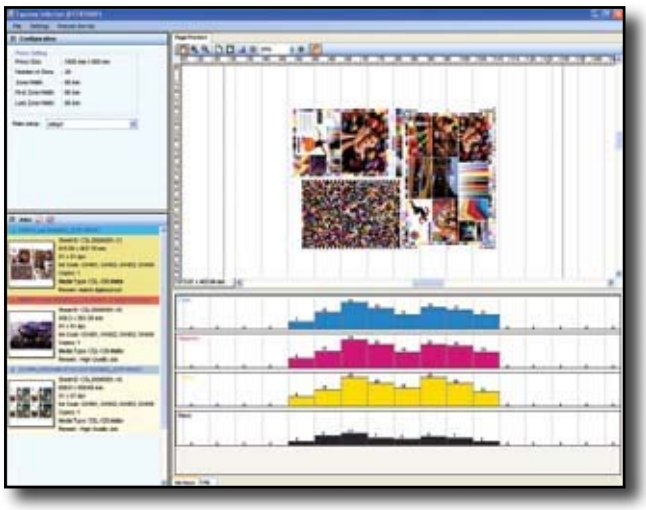


Express InkScript Server

Express InkScript Server is a server based product which allows ink key values of a job to be calculated according to the proper ties of the press unit set in the client application. The server workflow is sitting next to pre-press workflow or in front of the production manager who instructs which job is printed by which press. The production manager can also include job information, like the media and ink to be used, number of copies to be printed, etc, to let press operator aware.

Express InkScript Client is installed to the ink control unit of the Press. Press operator reads ink key values on screen to preset his press. It also generates CIP3 or IS Connect ink control data for ink presetting. PDF output or direct to printer is also possible. With the Visual Proof soft-proofing option activated, you can compare your output with digital proof on screen.

Express InkScript Client User Interface



The database runs behind the Express InkScript Server will maintain a record of all the jobs being placed with different Presses, this will enable user to generate analytical report for the future.

Gamut Check Tool in Visual Proof, it will display any colors that are out of gamut in red

Visual Proof for Soft-proofing Results & Plates (Optional)

Visual Proof is a specialized, easy to use, and high performance pre-press soft proofing tool for doing all the things that you used to do in proofing. With Visual Proof, you can check content, page size, blank plates, screens, moiré, overprints, size and placement of step-n-repeats, front-to-back registration, seams, traps, black traps, overprints, over inking, under-inking (small dots in flexo), densities, front-to-back duplex alignment, and you can also do double burns, delete blank plates, merge plate data, rotate plate data, produce a proof, backup plate data, etc...

What if my presses cannot accept CIP3/4 online?

Express InkScript comes with an optional but powerful interface, IS Connect, to link-up most of common press console to receive Ink Key preset value via Ethernet. It runs on an independent PC and provides an enhanced interface connector to link-up your presses with modern production workflow. IS Connect accepts the calculated data from InkScript and converts them into specific machine format for presetting the ink keys in all heterogeneous environments.

What is IS Connect?

Direct Connection for Heidelberg and MAN Roland

IS Connect's interface takes on the function of Heidelberg's Job Memory Card or MAN Roland's Chipcard and connects the machine control station via Ethernet to prepress. Ink key values are brought into line with individual printing conditions by the software package supplied, converted to the specific machine format, and saved online to the machine control system via IS Connect.

Replace magnetic strip by safety online transmission

IS Connect's interface provides a secure transmission of preset data to the machine control station. It replaces the magnetic strip/tape units normally used on Akiyama, Komori, Mitsubishi, and Planeta machines, and prevents the associated risk of errors from tedious handling of sensitive magnetic strips.

Advance Ink Key's Linear Calibration on IS Connect

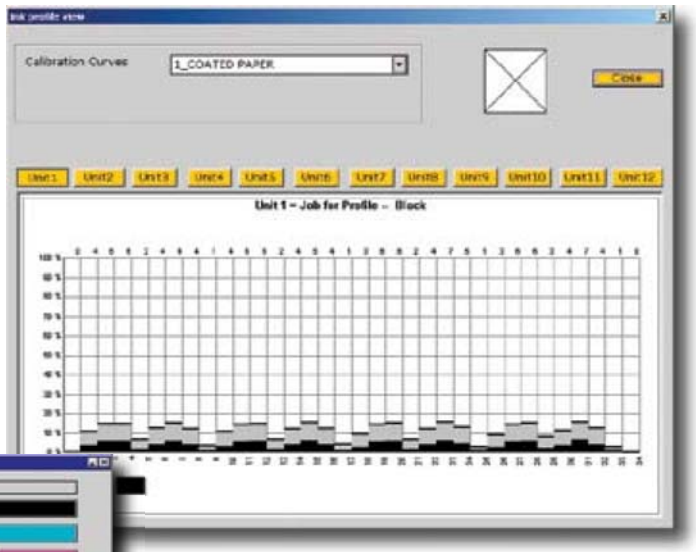
Each IS Connect option comes with a IS Connect software for converting and adjusting the calculated preset data into actual ink key values. IS Connect offers advanced color calibration functions such as adjustment of linearization (Ink Keys and Ductors), preview of Ink Zone values and print job, duct roller/ink sweep control, and much more, which enables for continuous process optimization.

Easier for Job Retrieval

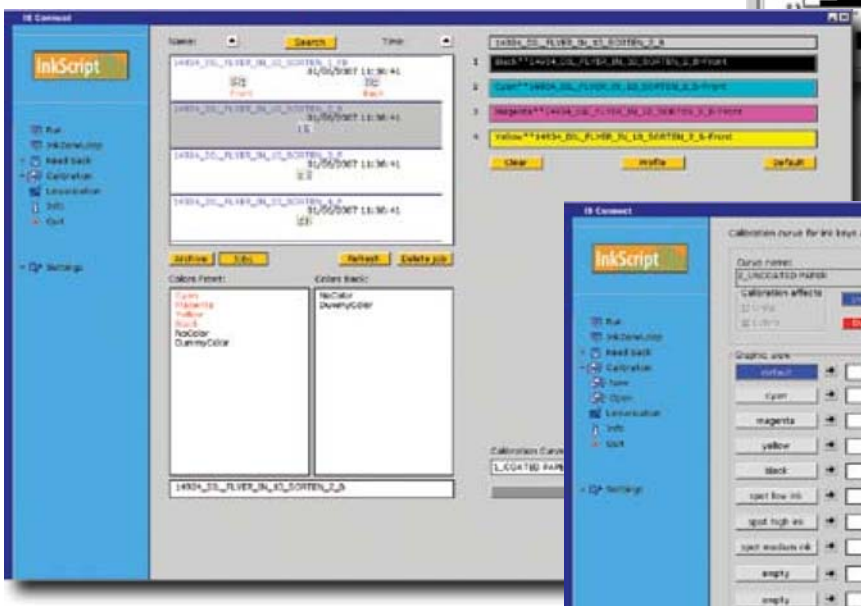
IS Connect minimizes the set-up times from the adjustment of the calculated preset data to the actual ink zone values set on the printing machine. Individual jobs can be copied from the control station back to the computer for repeat orders.

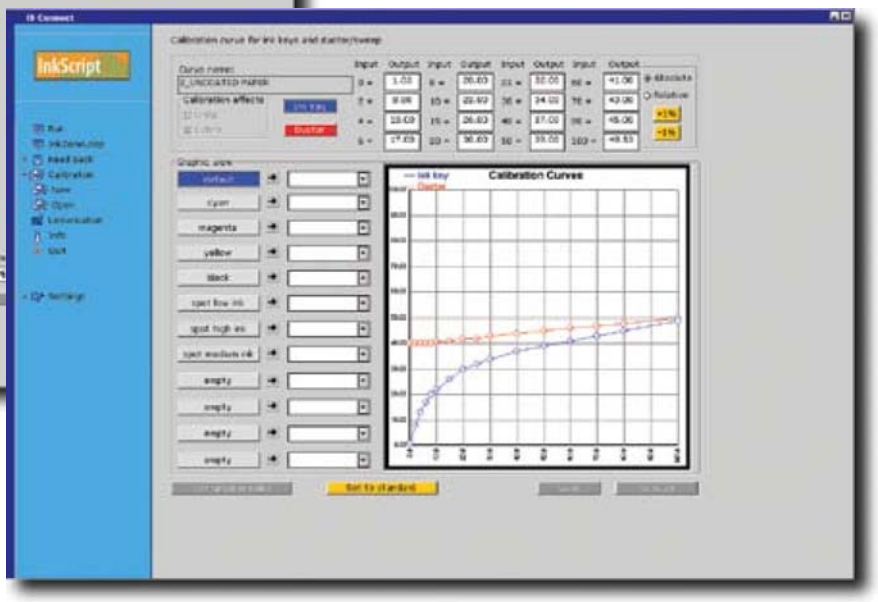
Support printing machines from nearly all manufactures

IS Connect works with a wide range of printing machines consoles from nearly all manufactures, including Heidelberg, MAN Roland, Akiyama, Komori, Mitsubishi, Planeta (Fuji and WPC), KBA, Komori, Ryobi, Eltromat, and GMI.



Ink Profile Preview in IS Connect





Linear Calibration on IS Connect

Express InkScript supports IS Connect for advanced Ink Key Control and Connection

Using IS Connect Loop

The launch of IS Connect Loop puts a manufacturer-independent online solution for digital control of offset presses onto the market for the first time ever. Supported by measurement technology, IS Connect Loop enables the automatic measurement and evaluation of control strips, as well as the continuous transmission of computed correction values directly to the printing machine. IS Connect Loop is based on tried-and-tested IS Card, IS Tape, IS Strip and IS Connect preset solutions.

Measure Color Data

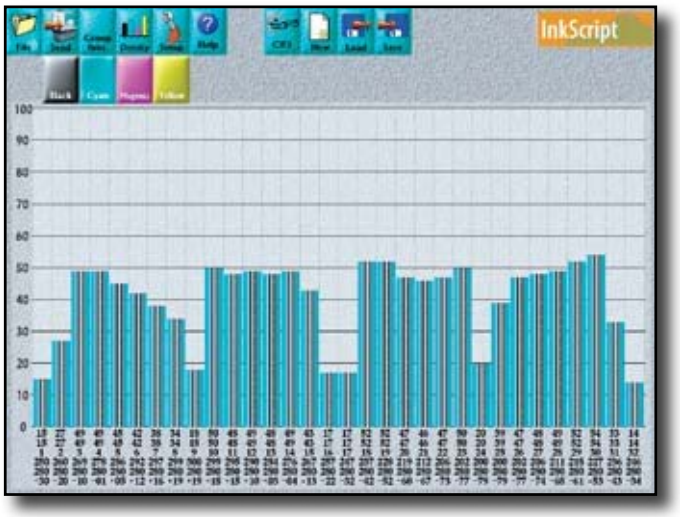
IS Connect Loop supports measuring systems from a wide range of manufacturers. Density values on the sheet containing the printing control strip are measured in a matter of seconds, and can be visualized in IS Connect Loop. Using saved data, the printer immediately recognizes the ink zone where the color is wrong. In addition to density, IS Connect Loop evaluates other factors like dot gain, slur, etc. Naturally, as well as functioning with CMYK, IS Connect Loop supports any spot color. All these functions combine several production steps that so far have mostly been carried out manually. IS Connect Loop thus comes with a huge increase in efficiency. Streamlined sequences are extremely important, especially at a time when print runs are shrinking. IS Connect Loop generates a record of the measured color data and thus assists with repeat runs. Naturally, the record also aids compliance with international quality standards.

Input: Direct connection to Express InkScript / WorkFlow

Regulate the Closed Loop Value

By comparing actual measured values with reference data, IS Connect Loop computes correction values for the printing machine. Transmission of the data to he console can be via IS Card, IS Strip, IS Tape, or IS Perfect. If necessary, the operator checks the preset values and, at the press of a key, releases them to the printing machine. The effect is clear: a huge reduction in workload, higher quality, and a stable production run.

Output: Transmitting correction values to the printing press



Ready for the Print Run in Record Time

The combination of control, measurement technology and workflow interface is unique. With IS Connect Loop, the printing house saves time and cuts down on waste. Reference values are attained faster, and it's easier to keep them within narrow limits. IS Connect Loop enables set-ups in record time, even with offset machines from the previous millennium. It's the perfect way to protect investments in existing installations. IS Connect Loop – the latest update for your offset presses!

Compatible Measurement Devices

TECHKON: RS400, RS800

X-RITE: ADT, ATS, EYE-

Technical Support List - IS Connect

Manufacturer	Type	Model
Heidelberg	Sheetfed	Printmaster PM/GTO 52, Printmaster PM/Speedmaster SM 52, Speedmaster SM 72, Printmaster PM/Speedmaster SM/CD 74, Speedmaster SM/CD 102, Speedmaster XL 105, vintage machines (MO).
	WEb	Harris/Heidelberg M600
	Console	Heidelberg CPC 1.02, CPC 1.03, CPC 1.04 and CP 2000
MAN Roland	Sheetfed	Roland 200, 300, 500, 600, 700, 800, 900, 900XXL, vintage machines (Favorit, Rekord)
	Console	MAN Roland RCI I, II and III
KBA	Sheetfed	Rapida 74, Rapida 105, Rapida 130, Rapida 142, Rapida 162, Rapida 185, Rapida 205
	Console	Colortronic, Ergotronic
Komori	Sheetfed	Lithrone 20/25/26/28, Lithrone 32, Lithrone 40/44, Lithrone 50, vintage machines
	Console	Komori PQC Console and/or Press Station, K-Station
Mitsubishi	Sheetfed	Diamond 1000, 2000, 3000, 4000, 5000, 6000, 1X, 2X, 3X, 4X, 5X, 6X, vintage machines
	Console	Mitsubishi Console
Planeta	Sheetfed	Varimat, Variant, Variomat 17, 24, 26, 27, 28, 33, 36, 37, 42, 44, 46, 47, 48, 50, 54, 56, 57, 58, 64, 66, 67, 76, 77
	Console	Fuji Varicontrol/Variocontrol & Web Printing Controls (WPC)
Ryobi	Sheetfed	522, 524, 525, 526, 684, 685, 686, 688, 6810, 754, 755, 756, 758, 7510
	Console	Ryobi PCS-G printing control system
Sakurai	Sheetfed	Oliver 2102EPII, 475, 575, 675, 466, 566, 666, 458, 558 (SD & SDP, SI & SIP), vintage machines
	Console	SCC Sakurai Color Console, Type I & Type II
Akiyama	Sheetfed	Jprint, Bestech, eXtreme, 26, 28, 29, 32, 40, 44 vintage machines
	Console	Akiyama Console
Eltromat	Sheetfed/web	All printing machines using the Eltromat console can be connected
	Console	Eltromat FFS console (Offcon I, II and III)
GMI Microcolor	Sheetfed/web	All printing machines using the GMI Microcolor console can be connected
	Console	GMI Microcolor console

Please contact our sales representative for further support list which are not in above.

System Requirements

Recommended system

- CPU: Intel Pentium IV, 3.x Ghz
- RAM: 2 GB RAM
- Harddisk: 160 GB, SATA
- Operation System: Windows 2003 Server / Small Business

IS Connect - Interface Connector for machine control station

Express RIP