Horizon

POSTPRESS MANAGEMENT SYSTEM

iCE LiNK

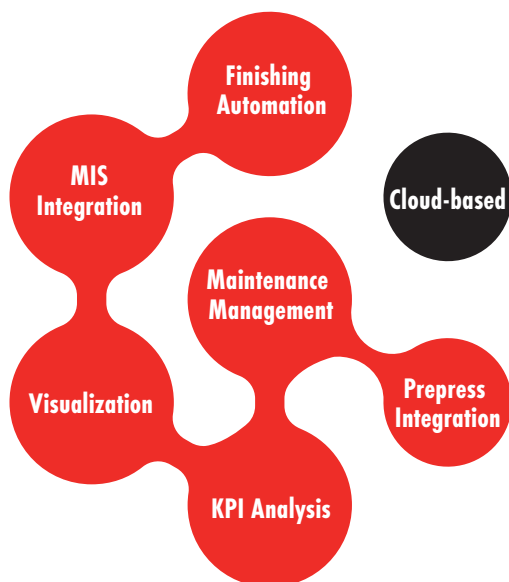## Manage your bindery with iCE LiNK.

OPTIMIZE YOUR WORKFLOW TO IMPROVE PRODUCTION AND INCREASE EFFICIENCY.

The iCE LiNK Post-press Management System enables the centralized management of binding and postpress equipment using cloud technology.

With precise analysis results from the KPI*1 analysis function, iCE LiNK reduces costs, provides productivity visibility, and automates workflow by integration to MIS and prepress.

*1 KPI stands for Key Performance Indicator. A KPI is an indicator used to evaluate the degree of achievement of an organization's goals.

SIX KEY POINTS OF ICE LINK

- Finishing Automation
- MIS Integration
- Cloud-based
- Maintenance Management
- Visualization
- Prepress Integration
- KPI Analysis

iCE LiNK

i = Intelligence, Integration, Interaction
C = Connection
E = Efficiency

ICE LINK HELPS SOLVE THESE CHALLENGES

1. Visualization of the Production Process.

2. Postpress Analysis and Management

3. Workflow Automation

4. Integration with Prepress Workflow

1. PRODUCTION PROCESS VISUALIZATION.

Real-time data management is necessary to make daily finishing operations more productive. Cloud-based data management enables better and faster decision making, which in turn improves the bindery environment.

Track machine operating status

Detailed visualization of plant operations with near real-time results for transparency and attention to detail.
Collaboration between Operators and Managers iCE LiNK provides analytical functions based on specific data, such as recorded operating performance.
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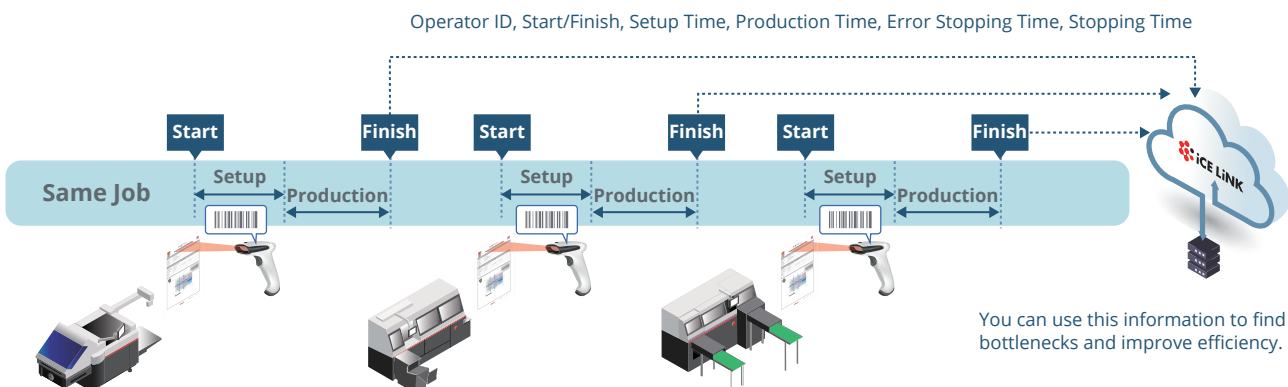 *Scheduling requires Enterprise.

Dashboard

Scheduling

Track job progress with barcodes

Data can be collected on a job-by-job basis by reading job information and other data with barcodes. Analysis by process, such as folding, binding, and cutting in the bookbinding process and cutting in the finishing process.
In addition, the system supports the creation of daily work reports by managing the history of each operator.

Operator ID, Start/Finish, Setup Time, Production Time, Error Stopping Time, Stopping Time

You can use this information to find bottlenecks and improve efficiency.

2. POSTPRESS ANALYSIS AND MANAGEMENT.

Horizon binders are designed to maximize performance and work efficiency.
iCE LiNK allows you to take advantage of the information you need to do so.

KPI analysis (Jobs, Operators, Number produced, etc.)

KPI analysis enables continuous operational improvement and assists in generating better insights. Enhanced status monitoring and control via web browser or tablet. It also gives you access at any time to the process information you need to improve your operations and business opportunities.
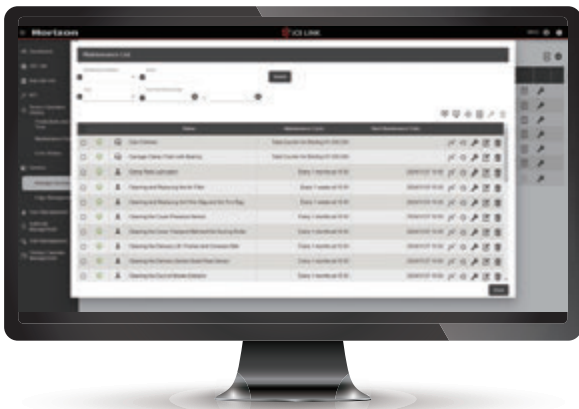

Comparative Analysis

Worker Analysis

Maintenance management

Impacts on bindery productivity include production volume, availability, failures, restarts, and consumable life.
With detailed information on each of these KPIs, higher level of visibility. iCE LiNK can be deployed across multiple bindery operations to facilitate informed decision making, improving production efficiency, uptime, and performance.
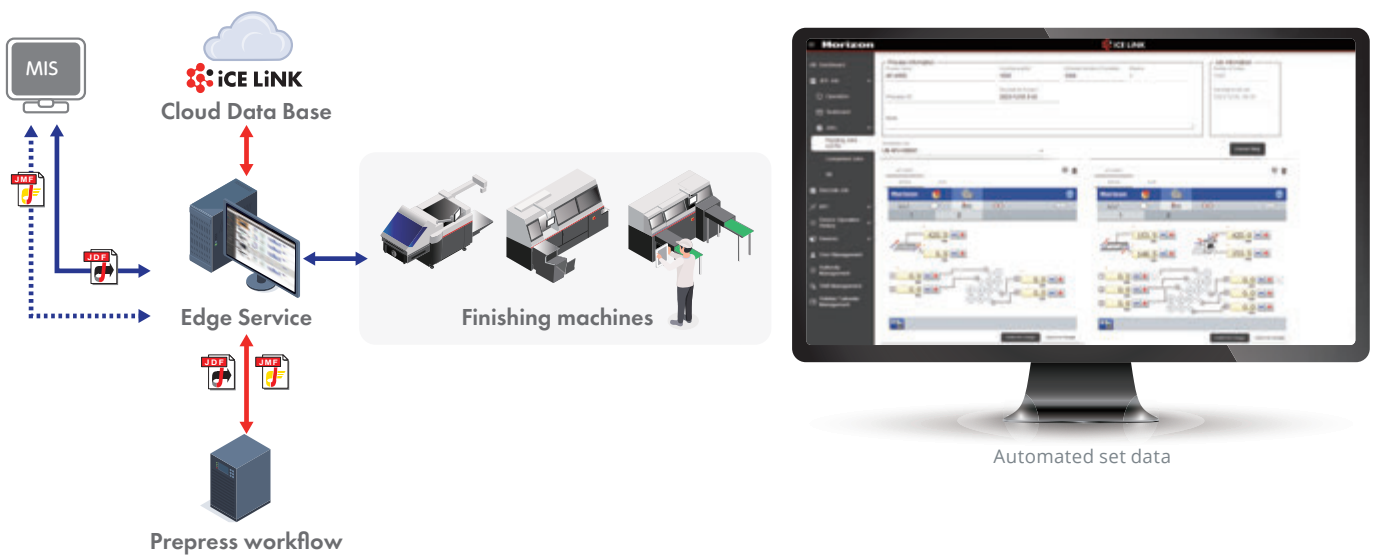

Maintenance History

Error History

Horizon Postpress Management System iCE LiNK

3. AUTOMATION WORKFLOW.

Automating the binding workflow has the effect of eliminating touch points. Integration with the MIS and prepress workflow is essential to maximize this effect. The system helps the operator understand the binding process and automates the changeover between the binding machine and the finishing machine.
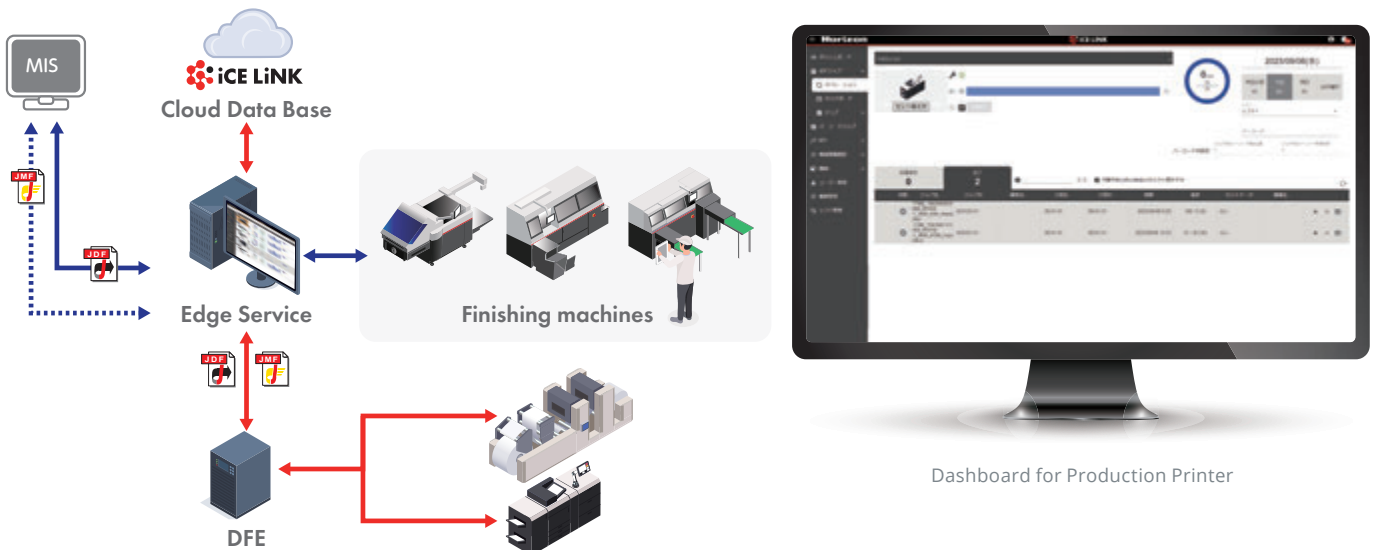
Integration with MIS and Prepress   `Automation` `Enterprise`

When iCE LiNK is integrated with an MIS, the MIS provides the necessary information for finishing operations. With this information, like final size and piece count, iCE LiNK assigns Horizon devices based on corresponding processing instructions. Additionally, integration with the prepress workflow allows for processing instructions based on imposition data, making automated machine changeovers a reality.

Automated set data

Monitor the operational status of production printers and offset presses   `Automation` `Enterprise`

For both offset and digital printing, finishing is a necessary process. iCE LiNK can capture and display the operating information of the previous process in a dashboard. Similarly, operation results can be accumulated in iCE LiNK.

Dashboard for Production Printer

4. PREPRESS WORKFLOW INTEGRATION.

Seamless workflow with Ultimate solutions

Ultimate Impostrip®

AUTOMATION IMPOSITION WORKFLOW

- Designed with productivity in mind, Ultimate Impostrip® is easy-to-use, versatile software that optimizes every aspect of the Prepress imposition workflow.

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ULTIMATE IMPOSTRIP ® WAS DESIGNED WITH PRODUCTIVITY IN MIND FOR ALL PRINT APPLICATIONS.

Transactional & Direct Mail	Offset Printing	Digital Printing	Variable Booklets
Commercial Printing	Packaging	Label Printing	Cards
Photo and Photobooks	Book Printing	Wide Format	Web-to-Print

Ultimate Bindery®

AUTOMATED SETUP OF FINISHING DEVICE

- Ultimate Bindery® is an open JDF server that validates jobs and automatically sends processing instructions to the finishing device.

- Information between the Prepress workflow and the bindery.

- Reduce preparation setup and eliminate bottlenecks

- Consistent setup every time accuracy is improved by performing improved accuracy

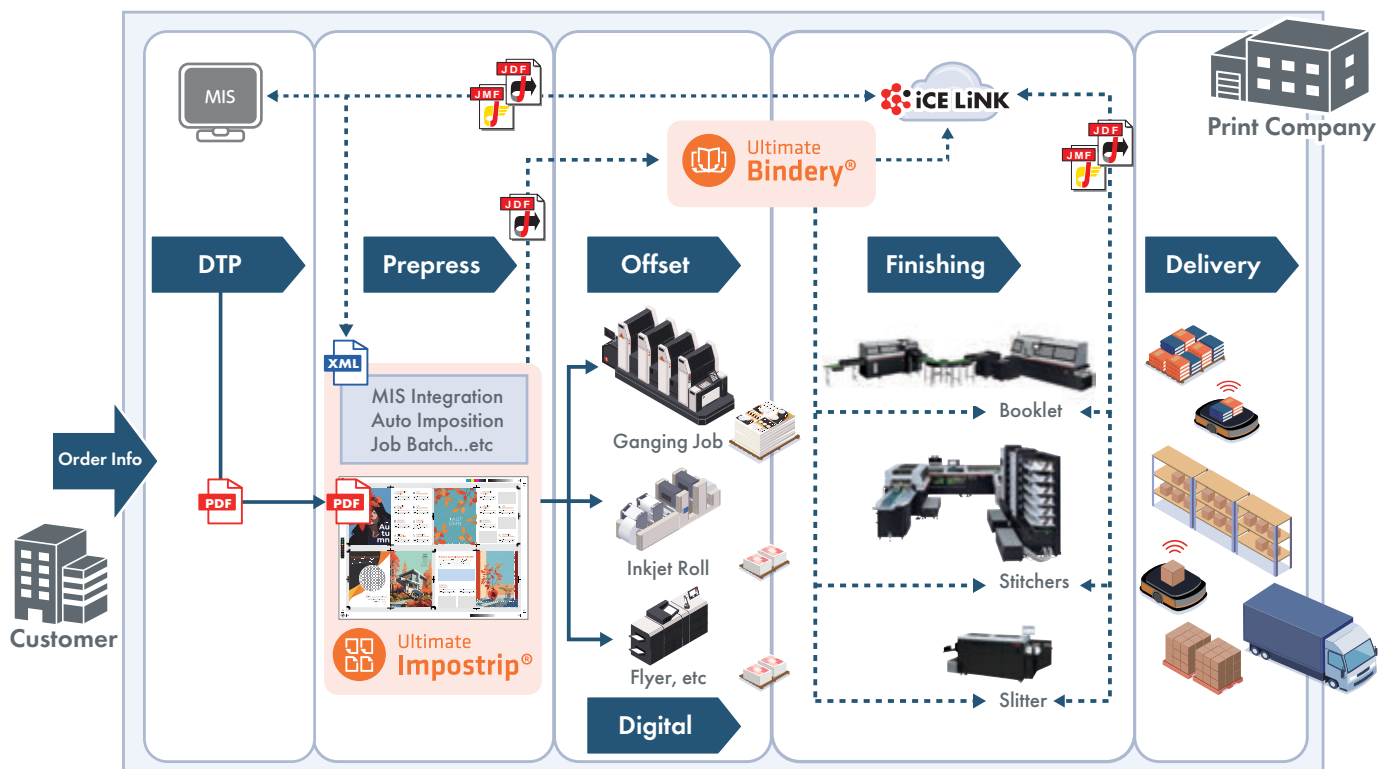- Validate jobs before printing to reduce costs and waste

- Open solution for all workflows

End-to-end workflow with Ultimate TechnoGraphics and iCE LiNK

It provides imposition in conjunction with MIS and various print applications, and iCE LiNK can instruct setup information for binding and finishing machines from the imposition information.

By providing an end-to-end workflow, iCE LiNK offers high productivity and a high degree of automation.
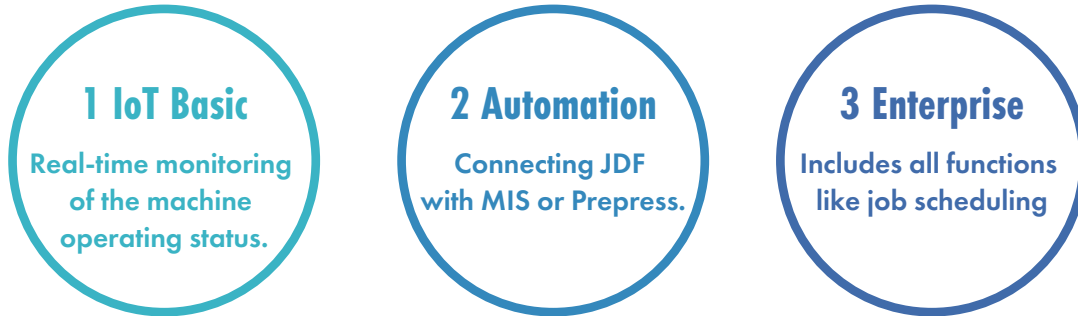
iCE LiNK requires either Automation or Enterprise.

iCE LiNK is a subscription service with minimal startup costs.
There are three editions to choose from and IoT Basic is the most basic model.
If you need to expand the system after installation, you can upgrade to a higher edition.

*Specifications are subject to change.

1 IoT Basic
Real-time monitoring of the machine operating status.

2 Automation
Connecting JDF with MIS or Prepress.

3 Enterprise
Includes all functions like job scheduling

FUNCTION		1 IoT basic	2 Automation	3 Enterprise*1
Device Management	Dashboard	✓	✓	✓
	Maintenance Notification	✓	✓	✓
	Production Printer Dashboard	-	✓	✓
	Offset Printer Dashboard	-	✓	✓
KPI Analysis	Overall Equipment Effectiveness	✓	✓	✓
	Job Analysis	✓ *2	✓	✓
	Operator Analysis	✓ *2	✓	✓
Workflow	Web API with External System * Detailed job report can be posted to external device for job analysis.	-	✓	✓
	Barcode Jobs	✓	✓	✓
	JDF/JMF Workflow	-	✓	✓
	Create / Edit / Delete JDF jobs	-	-	✓
	Job scheduling	-	-	✓

*1 On-premises version which does not send any data to cloud server is only available for the Enterprise edition. Ask your local dealer for details.

*2 CSV data output only.

COMPUTER SPECIFICATIONS.

EDGE COMPUTER

Processor	Intel Core i3 Processor or above is recommended
Operating System	Windows 10 Pro Version 20H2 or above NET Framework Version 4.7.2 or above
RAM	at least 4 GB (8 GB is recommended.)
HDD	at least 120 GB
Monitor	1,280 x 1,024 pixel or higher
Number of devices per license	20 Horizon devices

*Up to 20 devices can be connected per 1 main license.

CLIENT TERMINAL

Terminals	Windows computers, Macs, and tablets that can use one of the following browsers
Compatible Browsers	Google Chrome: V. 83 or above Microsoft Edge: V. 44 or above
Monitor	1,920 x 1,080 pixels or higher

SERVER COMPUTER

Processor	Intel Core i7-8550U 1.8GHz Processor
Operating System	Windows Server 2019 Standard or above
RAM	16.0 GB
HDD	at least 1 TB
Monitor	1,280 x 1,024 pixel or higher

*For the on premises version, a server computer is required in addition to the edge computer and client terminal.

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Horizon

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