

# EQUIOS PrintSimulator / Pro

for Truepress Jet520HD series / Truepress Jet520NX series

Print simulation

## A powerful tool to improve job planning and estimating

Print and RIP error detection with estimating and comparison tools  
for analysis before you go to press.



# Maximizing productivity and profitability

## EQUIOS PrintSimulator

EQUIOS PrintSimulator provides accurate information for production planning, RIP processing speed and ink consumption. Analyzing PDFs at high speed, Print Simulator finds potential concerns that could lead to printing errors. PrintSimulator helps provide high productivity and stable printing operation.

### Production and cost control

PrintSimulator improves estimation accuracy by predicting RIP speed and ink consumption supporting production planning and cost calculation before you print.

### Increased productivity Reduce costs!

### Preflight

PrintSimulator performs PDF analysis for PDF RIP and printing problems.

### Improve Press Efficiencies

Identify file and RIP issues before they get to press to allow for uninterrupted printing.

### Fast analysis of PDF files

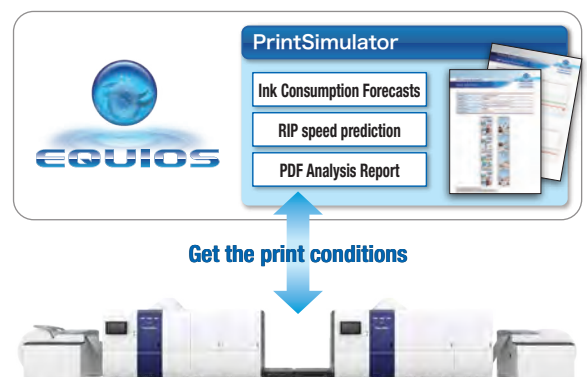
PrintSimulator analyzes multiple PDFs, even tens of thousands of pages long, at high speed, identifying PROBLEMS that lead to RIP errors, processing speed slow-downs, and incorrectly RIPped pages. PrintSimulator uses machine learning to identify problems based on past identification of printing errors, building a database over time to continuously improve PDF inspection.



### Predicting ink consumption and RIP speed

Ink consumption forecasting uses the same RIP images as actual printing to make highly accurate predictions taking into account density uniform correction, density settings, as well as printer information such as flushing settings, and printing conditions.

PrintSimulator shortens and improves production planning operations by providing the ability to “trial print” jobs. Both RIP and printing speeds are accurately predicted to identify potential slowdowns when a press is waiting for new pages. This allows for job scheduling that maximizes press uptime and productivity.

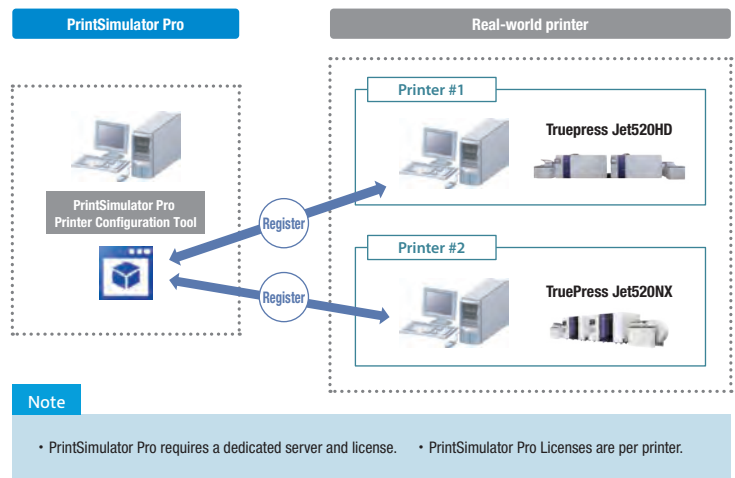


## Expansion options for more processing power and efficiency

# EQUIOS PrintSimulator Pro

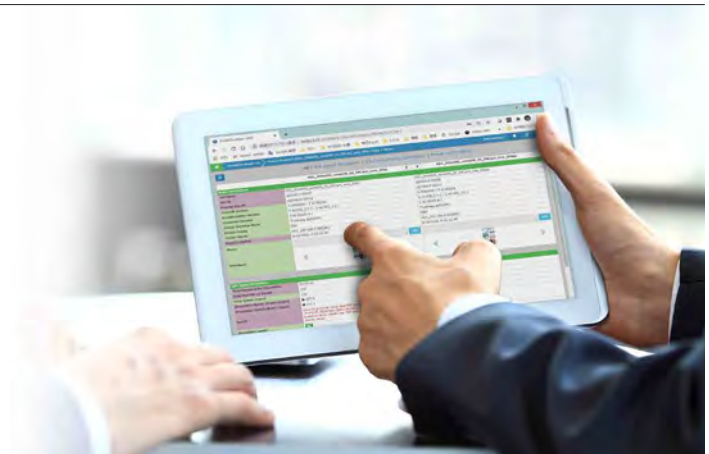
### Simultaneous prediction of large numbers of jobs

PrintSimulator Pro runs on a dedicated server. This enables it to efficiently process a heavy file load without impacting printer performance. Large numbers of PDFs can be simulated even while the printer and Equios are processing and printing live work. One PrintSimulator Pro can simulate and process on behalf of multiple printing presses.



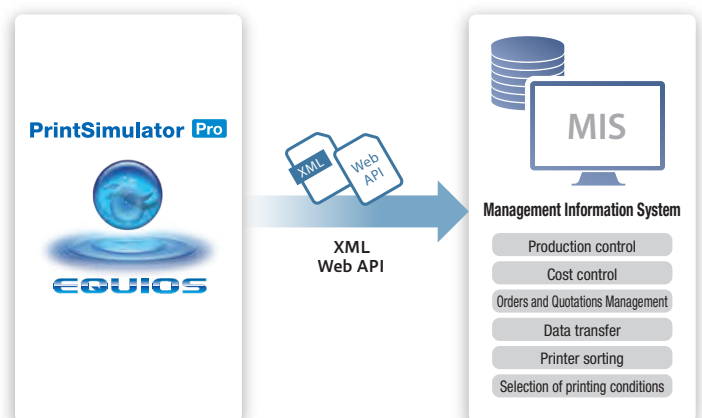
### See the results of your analysis in WebUI

Simulation results can be viewed from the WebUI in addition to PDF reports. Side-by-side simulation results of different printing conditions, including PDF analysis results and detailed RIP speed and ink consumption simulations, provide for easy comparative analysis.



### Automation using simulation results

PrintSimulator is capable of delivering results as PDF reports, XML data files and via a WebAPI so that report data can be imported into production management systems such as a management information system or other facilitates management system.







## PDF Analysis Report PrintSimulator / PrintSimulator Pro

**PDF Analysis Report**  
Basic Information

Data Name: 02\_Discard\_3000p.pdf  
EQUIOS Version: V3.40E008  
Job Name: HD1\_800400\_compOFF\_02\_Discard\_3000p  
Report Created: Wednesday, September 16, 2008 3:37:45 PM  
RIP Analysis Time: 00:00:04  
Analysis Result: Problem was found.

Thumbnail images of the PDF content are shown below the text.

Basic information

Page	Analysis Number	Problem	Supplement
1-000	1	The highest compression rate is used in the data. An error may occur during data decompression.	If an error occurs, correct the data.
Total 50	3-000	A text part using 2000 or more characters is found in the PDF. It may take some time for the RIP processing.	If an error occurs, correct the data.
Total 300	3-000	An image with a data size of 10 MB or more is used. It may take some time for the RIP processing.	If an error occurs, correct the data.

RESULTS of PDF analysis

PDF Properties	
Total Number of Pages	3000
RIP Version	1.8
File Size (MB)	14.0
Page Size (mm)	330x240.0
PDF Compression	PDF
Application	Problem 7 Designer 6.1.60.0
Transparency	No
Global Values	No
Global Values per Page	No
PDF 'V' Information	No
Layer Information	No
Used Color Information	Black,Blue,Cyan,Green,Magenta,Red,Yellow
Total Number of Images	13
Total Number of Fonts	18
Total Size of Image Data (MB)	79.4

Document Information (Document Properties)

PrintSimulator preflights PDFs to find and report problems that could cause unintended or poor quality print, such as bad images, file structure issues, corrupt fonts and other potential RIP processing issues. PrintSimulator analyzes PDFs of all sizes including high-page count files providing confidence in what will print, how it will print and how much ink will be used for that print.



## Output Forecasts Report PrintSimulator / PrintSimulator Pro

**Printing Report**  
RIP Speed Simulation

Simulation Graph (Front)

The graph shows RIP speed (mm/s) on the y-axis and time on the x-axis. The speed fluctuates around a baseline, with a significant spike at the end of the simulation.

RIP speed prediction (simulation graph)

Results Summary	
Time Required for Simulation	00:02:43
Total Number of Sheets	1500
Print Speed (mm/s)	420
Simulation Speed (Front) (mm/s)	404
Simulation Speed (Back) (mm/s)	4076
Result	There was no problem with the RIP speed.

RIP Speed Prediction (Results Overview)

Results Summary			
Number of Print Cycles	1		
Number of Simulated Sheets	1500		
Updating Printer Information	The printer information has been updated normally. The simulated ink consumption has been calculated based on the latest printer information.		
ink	Total [ml]	Front [ml]	Back [ml]
Black	74.945	37.038	37.946
Cyan	63.088	31.286	31.800
Magenta	47.183	24.090	22.493
Yellow	36.706	18.192	18.000

Ink Consumption Forecasts

Compare RIP speed predictions with actual print speeds using visual representations of printing error risk due to a series of pages with high computational loads in the PDF. Build accurate estimates and control costs by predicting ink consumption based on variables in printer and color settings.



## WebUI PrintSimulator Pro

The screenshot shows a web browser displaying the PrintSimulator Pro interface. It features a table with columns for 'ink', 'Total [ml]', 'Front [ml]', and 'Back [ml]'. The table lists ink consumption for Black, Cyan, Magenta, and Yellow. Below the table, there are several small thumbnail images of printer components.

Ink Consumption Forecasts

A WebUI (web user interface) provides an easy visual comparison of the impact on print variables, such as ink consumption and speed, resulting from variations in printer adjustments so that the ideal printer settings can be determined prior to printing.

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No.202-203E V1-E SCI 01-21

Printed by the Truepress Jet520HD+ / SC inks