The sheetfed simulator models a 6-color press from infeed to coating and delivery along with its plates, blankets, ink and paper. The interactive software works like an airplane simulator and is so effective that its users feel that they are “virtually printing” — the only difference is that there are no paper, ink or press costs. Production problems of varying complexity can be created to suit all staff levels. The real results are improved operator skills and higher productivity.

Software runs on standard multi-media PCs preferably equipped with two monitors. One monitor displays the press, its control console and its mechanical parts; the second shows the printed copy and proof.

Press console monitor
Control the entire press line from feeder to delivery. It allows all functional settings to be made and adjusted. Icons on the press console display the printed page, its proof, and access tools. The operator can check the press and the status of its variable settings. An interactive diagnostic self-help identifies possible problems along with explanations and solutions.

Print copy monitor
Compare differences between the “printed form” and the ”proof” copy. A magnifier allows close-up sheet inspection and verification of registration. The print copy has a color control strip which can be checked with both the magnifier and densitometer to assess gray balance, dot gain, slurring, density, trapping, plate exposure and other printing details.

Virtual printing... real results : what users say
“We have seen a direct parallel between trainee success using the program and performance on the printing press. Sinapse Graphic simulation is a great tool.”  
SMURIT-STONE

“One of the best, most efficient and cost effective means of building a continuous training culture. Press crews become more systematic and effective in their trouble shooting skills.”  
INTERNATIONAL PAPER

Simulators help
• Develop efficient problem solving skills
• Reduce waste, make ready and running time
• Investment to increase staff productivity and continuity
• Build confidence, helps team building and understanding
• Reduce training time and maintain printing skills
• Structured skill enhancement and evaluation
• Best practice & knowledge transfer

The most realistic “hand-on” operating experience comes from installing the simulator software into a press console.
Press Console

Pressroom
- Humidity/Temperature
- Feeder
- Decurling device
- Input pile & paper parameters
- Separating lamella
- Insertion lamella
- Jogger
- Pile guides
- Compressor
- Feeder head
- Suckers
- Stops
- Side lay
- Double sheet detector
- Feeder Board
- Print unit
- Grippers
- Impression cylinder
- Blanket
- Blanket cylinder
- Blanket packing

Production info
- Cylinder pressures
- Temperature
- Speed
- Perfecting

Press Adjustments

Plates
- Plate cylinder
- Plate packing system
- Inking system
- Fountain
- Fountain (ductor) roller
- Ink segments
- Oscillators
- Form rollers
- Dampening system
- Fountain rollers
- Metering rollers
- Form rollers
- Coating
- Coating cylinder
- Dryer
- Powder
- Powder device
- Delivery
- Grippers
- Blowers
- Suction
- Stack Position

Potential Faults
- Back-up registration
- Bad delivery
- Blinding
- Build-up (ink piling)
- Color difference
- Crash
- Crooked sheet
- Dents in blanket
- Dog ears and tears
- Double sheet
- Doubling
- Drying delay
- E-stop (breakdown)
- Filling-in
- Fit (register)
- Flooding
- Fluffing
- Ghosting
- Hickeys
- Ink deposits
- Lines in print
- Loss of image
- Missing sheet

Press Display and Analyses

Display
- Full or partial pages
- Current print vs. proof
- Front or back

Tools
- Magnifier
- Densitometer
- Glossmeter
- Production info
- Paper type
- Ink type
- Good & bad copies
- Cost & Time

Diagnostic Help System

Interactive diagnostics
- Possible causes for current problems
- Explanations
- Solutions

Personalization Opportunities

Multi-media
- Industrial production costs
- Creation of training courses
- Customized print images

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