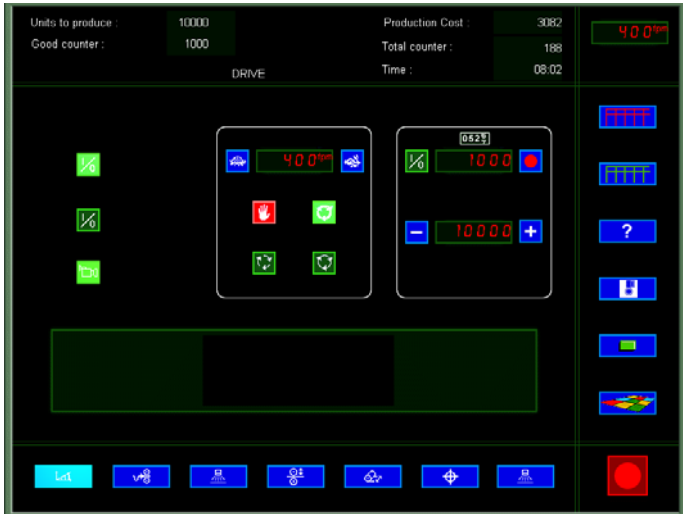


# Technical descriptive sheet

## Flexo Printing Simulator – FlexSys II

### Press Console



### Web tension

- Reel-Stand Pressure
- Side-Lay (Lateral) Web Position
- Nip Pressures And Tensions
- Stripping capstan roll tension

### Inking & printing

- Inking Pressure
- Printing Pressure
- Doctor Blades Or Fountain Roll Pressure
- Ink Pump Speed
- Viscosity And pH Sensors

### Drying

- Dryer Temperature And Airflow
- UV Curing Level

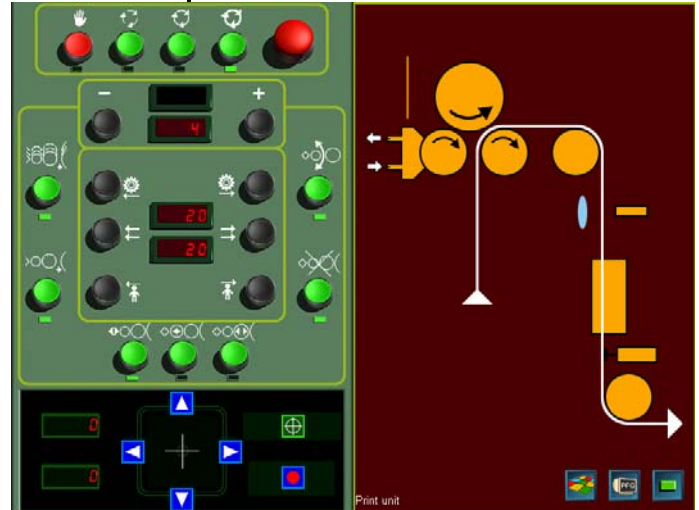
### Registration

- Print Register

### Press



### Press Components



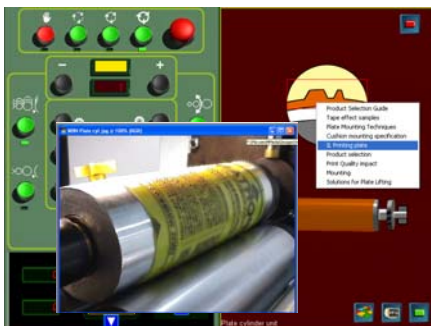
- Inking system**
- Fountain Roll
- Doctor Blade
- Mounted Anilox Cylinder
- Anilox Roll
- Gear - Anilox
- Web handling**
- Unwind Section
- Brake

- Nip Roll System
- Web Guide System
- Infeed section**
- Web Cleaner
- Anti-Static System
- Corona Treatment
- Idler Rolls
- Print Unit**
- Plate Cylinder Unit

- Plate Cylinder
- Gears - Plate Cylinder
- Mounting Tape
- Printing Plate
- Dryers**
- Heat Source
- Drying Chamber
- Supply Fan
- Exhaust Fan

- Air Conditioning Device**
- Lamination Unit**
- Lamination roll
- Rotary Die Cutter Station**
- Waste Removal Unit**
- Stripping Capstan roll
- Slitter**
- Web Viewer**

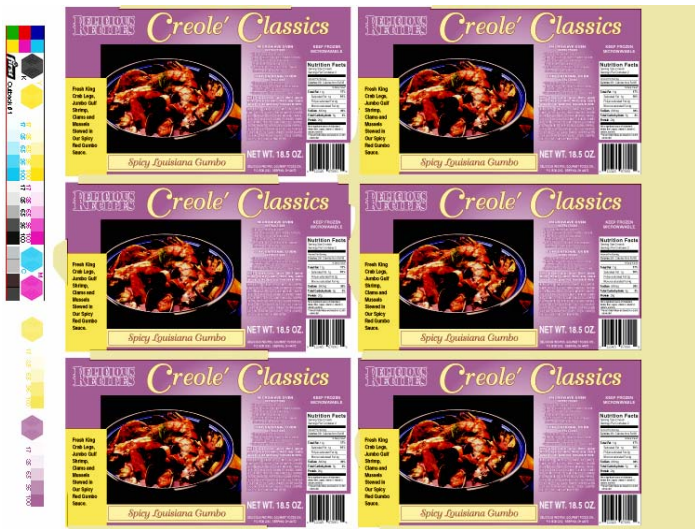
### Personalized Opportunities



#### Multimedia

- (pictures, videos, text, presentations, safety information, documents, procedures, pdf, etc)
- Industrial production costs
- Creation of training courses
- Customized press settings
- Customization of materials and components used
- Customized print jobs for simulation

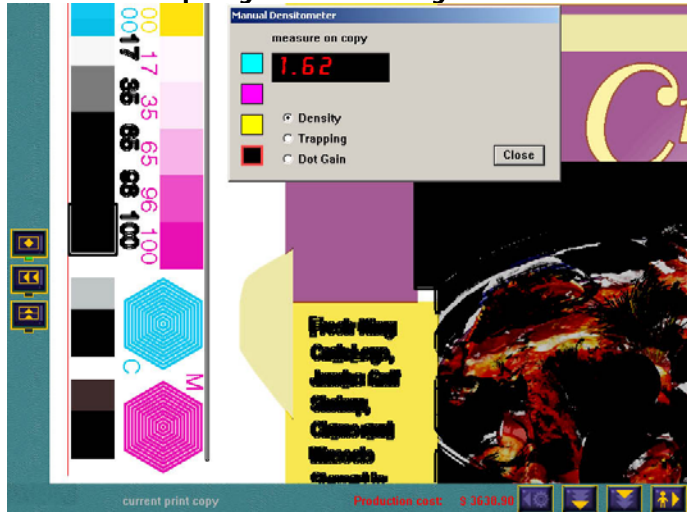
## Potential Faults



- |                     |                                |                      |
|---------------------|--------------------------------|----------------------|
| Donuts              | LFL Problem                    | Set Off              |
| Dot Gain            | Lines                          | Skipout              |
| Double              | Mark                           | Slitter Jam          |
| Inking              | Marks On Web Edge              | Slur                 |
| Dragging            | Mis Register                   | Splashing            |
| Dropped             | Mis Register (Print-Structure) | Stack Not Uniform    |
| Dots                | Missing Labels                 | Striations           |
| Distortion Of Plate | Moiré                          | Substrate Burned     |
| Explosion           | Mottle                         | Production Width     |
| Feathering          | No More Laminate               | Tracking             |
| On Trailing Edges   | No Printing                    | Trapping             |
| Fill-In             | No Slitting                    | Undesired Odor       |
| Film                | No Substrate                   | Uneven Print Colors  |
| Shrinking           | Not Creasing                   | Unreadable Bar Code  |
| Fish Eyes           | Not Cutting                    | VOC Level            |
| Flooding            | Picking                        | Wrong Cutting Length |
|                     | Pinholing                      | Wrong Color          |
|                     | Poor Creasing                  | Wrong Density        |
|                     | Press Stop                     | Wrong Design         |
|                     | Printed Dust                   | Web Break            |
|                     | Repeat Length                  | Wrinkles             |
|                     | Reticulation                   |                      |
|                     | Roll Not Shippable             |                      |
|                     | Scratches                      |                      |

- |                    |                         |                  |
|--------------------|-------------------------|------------------|
| Adhesion           | Comet Streak            | Ghosting         |
| Bleeding           | Cut To Print Register   | Grease Stains    |
| Blocking           | Curling                 | Halo             |
| Bounce             | Dirty Print             | Ink Rotation     |
| Brittleness Of Ink | Die Cutting Through     | Ink Starvation   |
| Chattering         | Liner                   | Laminate To Roll |
| Color Off          | Distortion Of Substrate | Alignment        |

## Print Display and Analysis



### Display

- |                      |                               |
|----------------------|-------------------------------|
| Full Image Size      | Adhesion Test                 |
| Quarter Image Size   | VOC Levels                    |
| Sixteenth Image Size | <b>Production Information</b> |
| Print Copy Vs        | Substrate Type                |
| Contract Proof Copy  | Ink Type                      |
| Control Strips       | Anilox Roll Settings          |
| <b>Tools</b>         | Metering System               |
| Densitometer         | Good & Bad Copies             |
| Magnifier            | Cost & Time                   |
| Spectrophotometer    |                               |

## Diagnostic Help System – FLIPSS



Interactive diagnostics with all possible causes for current simulated problems along with explanations and suggested solutions

04/2004 – Specifications subject to change



Sinapse Graphic International  
 Bât Epicure - Les Algorithmes  
 Route de l'Orme aux Merisiers  
 91194 Saint-Aubin Cedex - France  
[info@sinapsegraphic.com](mailto:info@sinapsegraphic.com) [www.sinapsegraphic.com](http://www.sinapsegraphic.com)  
 Tel: 33 (0)1 69 35 54 00 - Fax: 33 (0)1 69 35 07 15