

**GAA 2008 Leadership Summit**

**September 9-11, 2008 - Parsippany, New Jersey**

# **MODERN GRAVURE PRESS SOLUTIONS**

*THROUGH ECO-FRIENDLY  
INNOVATIONS FOR  
SUSTAINABLE GROWTH*



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- ***Common Important Priority for Press Manufacturers and Converters:***

- Equipment Efficiency for Sustainable Solutions to
  - Reduce Environmental Impact of Industrial Operations
  - Achieving Significant Cost Savings

- **Specifically for:**

- » Reduction of Waste
- » Reduction of Energy Consumption
- » Reduction of Hazardous Products



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- ***4X Drivers for Sustainable Healthy Growth***

- ***EX***cellence in Quality
- ***EX***treme Waste Reduction
- ***EX***tremely Low Environmental Impact
- ***EX***cellence in Performance



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## *Excellence in Quality*

- Zero tolerance in print quality
- Intimate customer knowledge and extensive application of scientific methods
- Superior service to optimize individual customer requests
- One single source of responsibility



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## *Extreme Waste Reduction*

- Integrated solution of the Electronic Line Shaft (ELS) and the Register Control Equipment (Rotomec Solution)
- Total Automatic Pre-Register Setting (TAPS)
- Shortest possible web path
- Minimum return of inks to storage



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### *Extremely Low Environmental Impact*

- Minimum exhaust air volume maximizing solvent concentration
- Lower energy consumption (less CO<sub>2</sub> emissions)
- Less inorganic waste disposal
- Independent ventilation concept providing cleaner workshop environment



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## *Excellence in Performance*

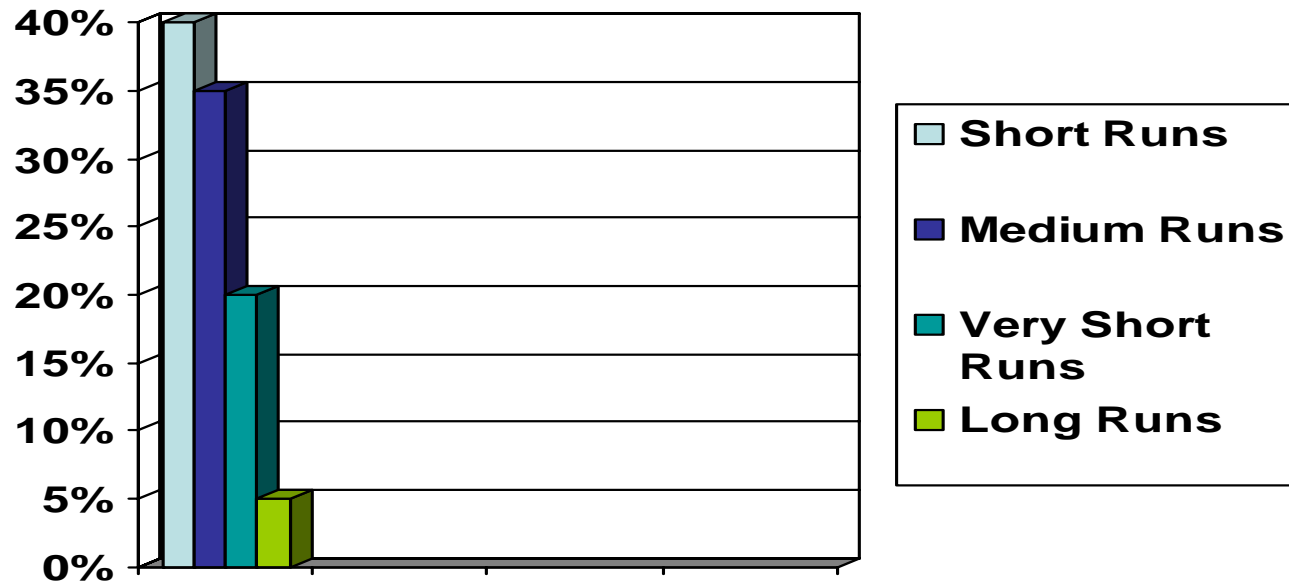
- Easy and faster set-up
- High production speed (medium to long runs)
- Superior register accuracy and performance
- Higher productivity



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## Job Range Mix





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- **Multi-Purpose Press (30,000 – 50,000 yards)**
  - Often a press is used to handle the full production range: short – medium and long runs
- **Long Run Press (above 50,000 yards)**
  - Productivity is key.
  - Run speeds up to 2000 ft/min
  - Extended dryer lengths
- **Short Run Press Needs (15,000 to 30,000 yards)**  
**Very Short Run Press (less than 15,000 yards)**
  - Printing cylinder sleeves
  - Minimized waste
  - Minimized energy costs
  - Small press footprint



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- **Multi-Purpose Press (30,000 – 50,000 yards)**

- Multiple in-line processes
  - Cold Seal, Lamination (solventless or dry-bond), Coating (lacquers, EB coatings, primers etc...), in-line embossing...
- Trolley type with either automatic or manual movement
- All inking parts on-board the trolley for full off-line presetting
- Ability to remove only the printing cylinder from the press
- Job recipe for automatic presetting of the job (new and repeat jobs)
- Efficient and very versatile drying and ventilation system
- Dryer air with hot oil system (higher air recirculation + solvent rich air to oxidizer)
- Full press integration with the automatic register control system and all auxiliaries (corona treater, web guides, LEL, viscosity controllers, video cameras, video inspection systems, in line embossing)



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- **Long Run Press** (above 50,000 yards)
  - Run speed is key
  - Highly efficient dryers
  - Fully independent ventilation system
  - Dryer lengths suitable for required dwell time of the web
  - Inks and coatings formulated for the higher printing speeds
  - Printing speeds up to 2000 ft/min
  - Effective chill roller design
  - Inking system with inking roller
  - Ink splash guards effective for high running speeds



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- **Short Run Press Needs (15,000 to 30,000 yards)**

- **Very Short Run Press (less than 15,000 yards)**

- Main differential between short & very run presses is;

- » Short runs can be handled on a modern traditional trolley type press
- » Short run presses generally designed with a maximum mechanical speed of 1150 ft/min
- » Very short run presses have a maximum mechanical speed of 820 ft/min
- » Short run presses are designed with traditional air impingement dryer nozzles
- » Very short run presses equipped with shorter, but higher efficiency dryers
- » Either press is designed with independent ventilation system



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## Very Short Run Press (less than 15,000 yards)

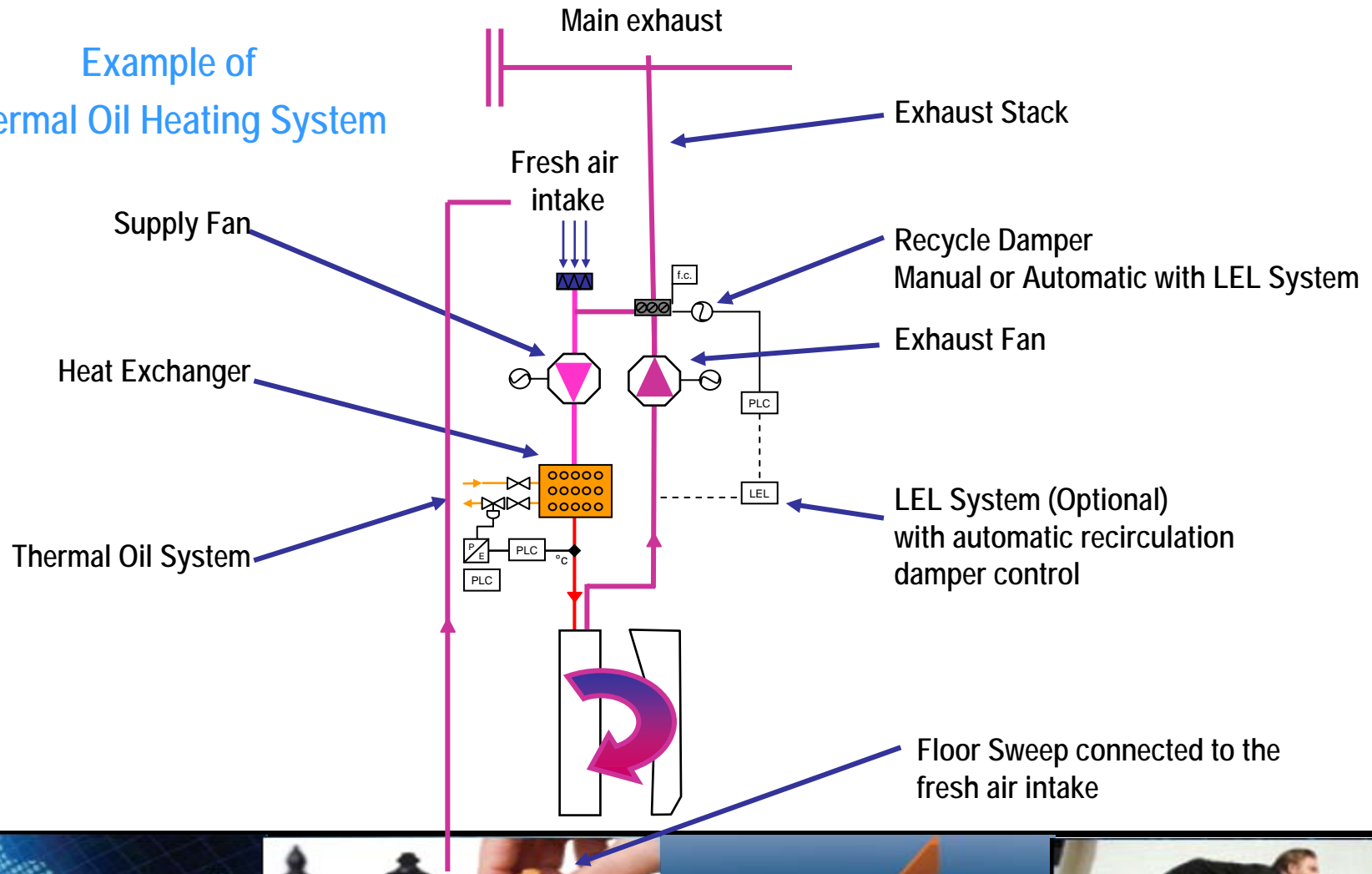
- Minimized Waste
- Minimized Energy
- Minimized Press Downtime
- Press Automation to expedite job change-over
- Automatic Pre-Setting of the Doctor Blade
- Total Automatic Pre-Register Setting (TAPS)
- Very Compact Design
- Use of Printing Cylinder Sleeves
- No Trolleys
- Press Completely Operated From the Floor
- Highly Efficiency Dryers  
(Air Impingement & Floatation Technologies)



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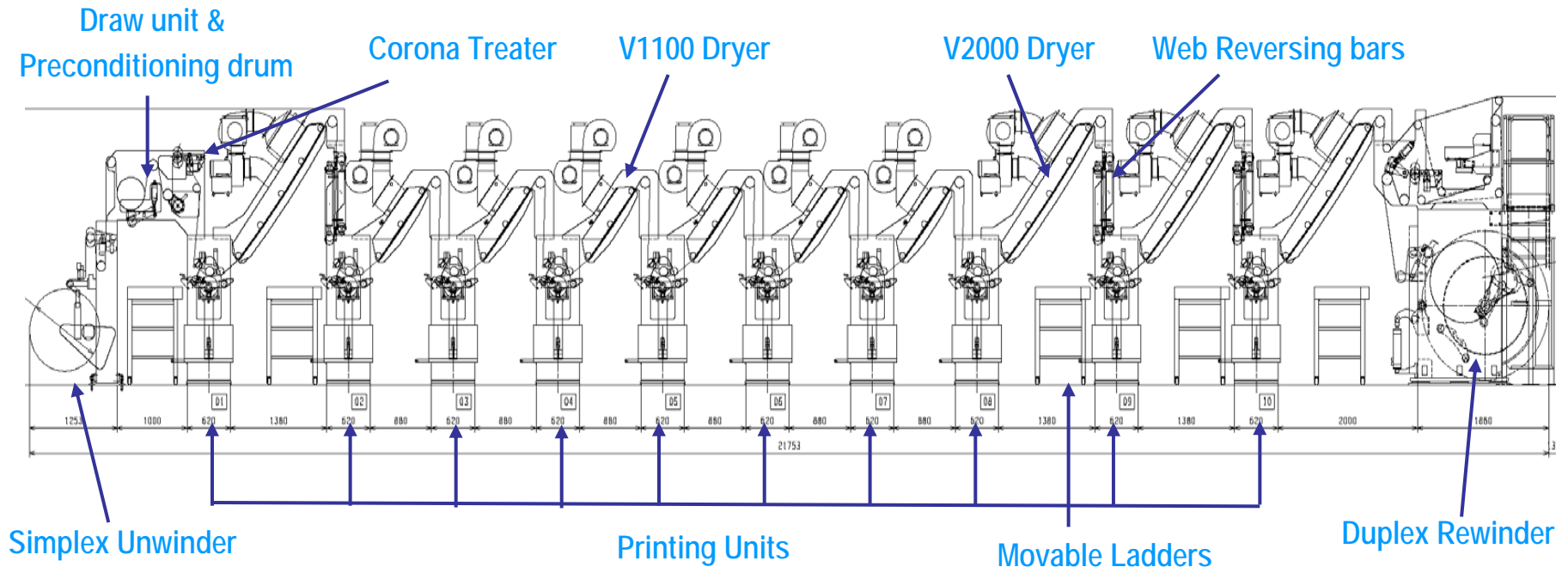
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## Example of Thermal Oil Heating System



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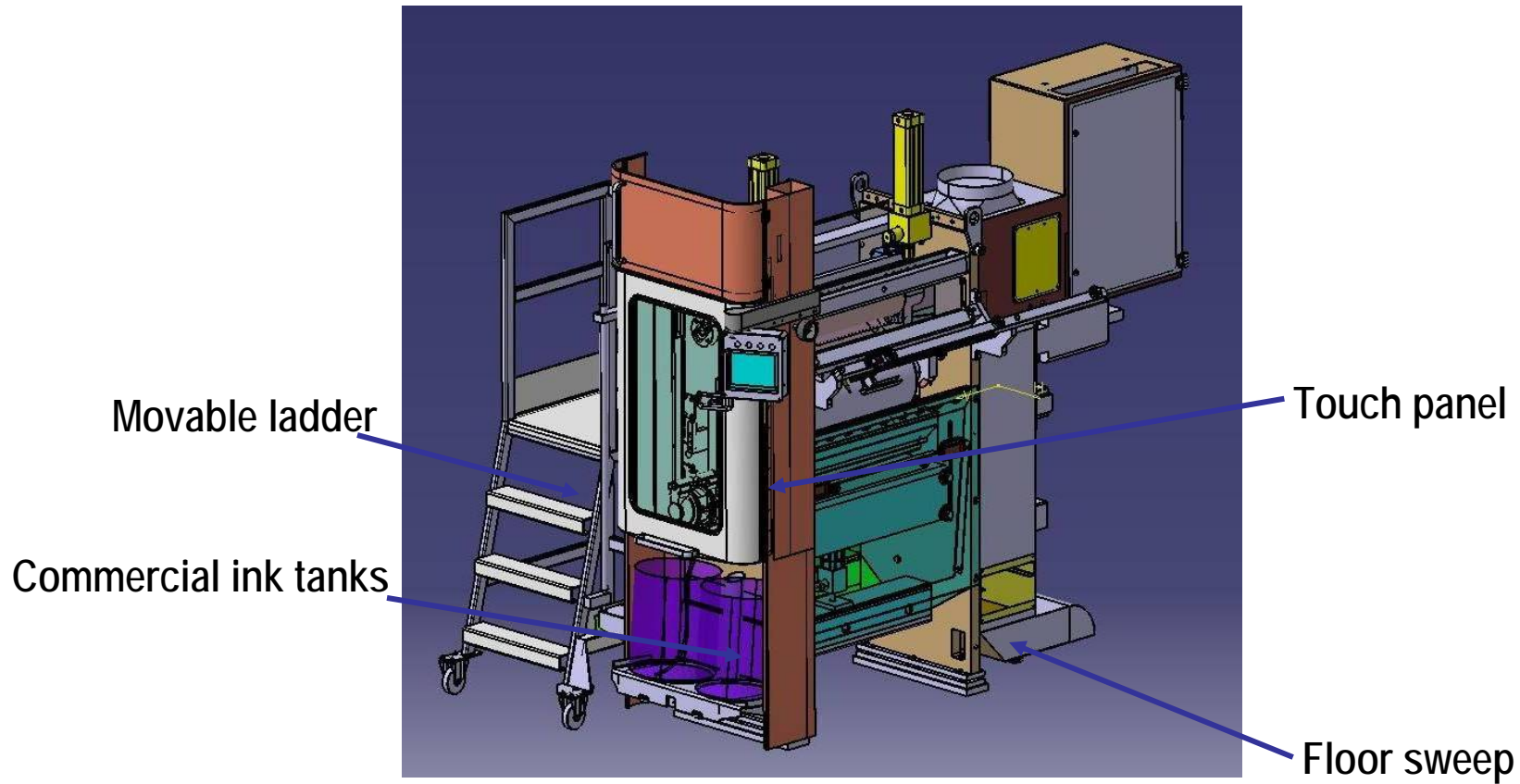
Web length reel to reel = 160 feet

- Integrated Electronic Shaft and Register Control
- More than 50% web path reduction compare to traditional press with ELS technology more than 65% for press with compensator



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- Traditional hollow printing cylinder with cones
- Light weight printing cylinder with cones (Aluminium, plastic type)
- Thin sleeve printing cylinder with change on board the machine



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**THANK  
YOU**

