

Spring 2005 – Vol. 7, Number 4

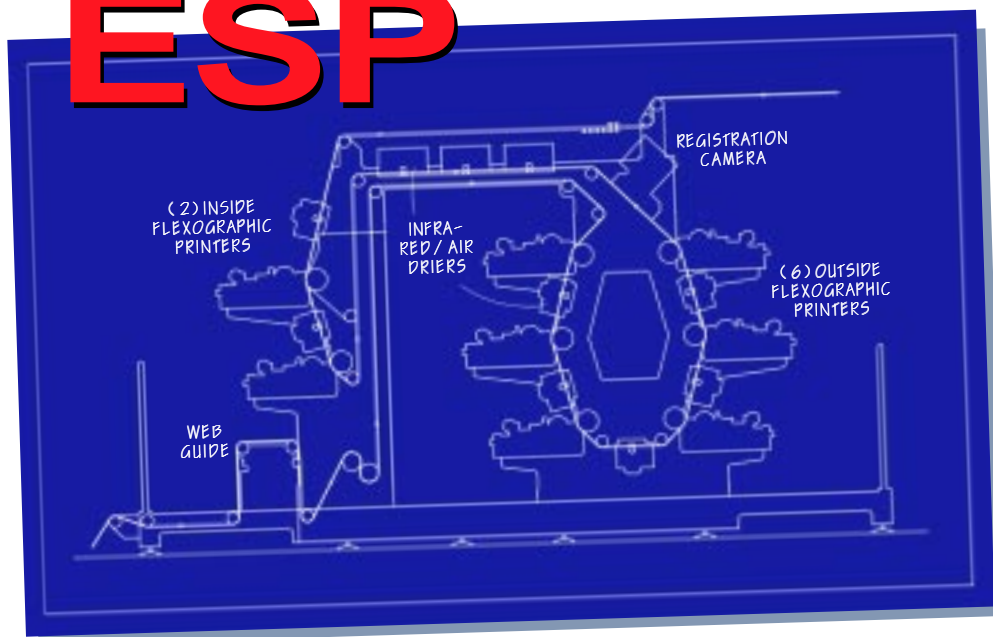
Newsletter

F.L. Smithe Machine Co. Inc.
899 Old Route 220 North, P.O. Box 36, Duncansville, PA 16635



ENHANCED SERVO PRESS THE LATEST DESIGN FOR FLEXOGRAPHIC PRINTING IS THE NEW CHAMPION MODEL **ESP** SERVO PRESS

ESP



F.L. Smithe Machine Company is pleased to announce the latest innovation in flexographic printing technology for the envelope industry. The **Enhanced Servo Press**, model **ESP** is now in the production phase on our manufacturing floor. The **ESP** is an exciting move forward for the envelope industry. Ergonomically designed with the latest servo-drive technology, the **ESP** offers the industry advanced printing solutions for regular and coated envelope stocks with ease of operation and minimal change-over times.

The **ESP** can be configured up to six colors out over two colors in. Each printer is independently servo driven and comes with an enclosed (non-metallic) doctor blade system.

Standard Features of the **ESP**

- Independently servo-driven printers
- Servo-driven pull roll
- Sleeve system for anilox rolls
- 5½" diameter anilox rolls that produce about twice the envelopes before cleaning and/or replacing
- Sleeve system for type cylinders
- Pneumatic sleeve expansion system
- Tool-less sleeve change system
- Ultrasonic centerline web guide
- Between printer drying – infrared with hot air impingement
- Hydraulic impression cylinder controls
- Chrome plated impression cylinders and mandrels
- Incoming and outgoing web break detection
- Walk through design between inside and outside units
- Each entire printer has ±1/4" lateral register adjustment
- Maximum printing width of 15"
- Full 360° phasing on all printers
- Drying units after each printer
- Final drying units after outside printing



**The F.L. Smithe Machine Company
Has Been Serving the Envelope
Industry for over 100 Years**

Aquaflex Machines Being Built in our Duncansville Facility



The Future of Flexography

After acquiring the assets of Aquaflex last year, we worked diligently to move the manufacturing and assembly operations to Duncansville. We have been manufacturing Aquaflex parts and components in Duncansville since April 2004 and by the end of February 2005, all manufacturing will be at our Duncansville location. We will continue to service and support our Aquaflex customers from several worldwide locations.

We currently have an LX machine available for demonstrations. Shown below this LX is configured with eight printing stations, full 360° print registration, drawer style printers, electronic and vacuum style web cleaners, infrared dryers, UV driers, zoned web tension controls, two die cutting stations, auto and manual web centering guides, single sheeter and splicing unit, double waste rewinds with automatic tension control, motorized shingling conveyor and a motorized single rewind unit.

Other options for the LX include

- *High-speed video print registration monitoring system*
- *Three die cutting stations*
- *Up to 12 print stations*
- *Turn-bar for opposite side printing*
- *Underscoring unit*
- *UV drying for ink and lamination*
- *Lamination tower*
- *Conveyor for sheeted delivery*
- *File stamping unit*
- *Silk-screening unit*



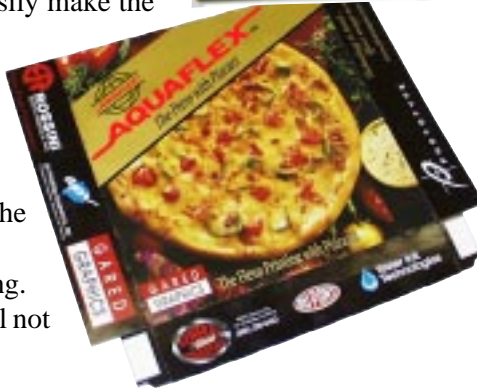
Other **Aquaflex** models include the **Instaprep**, the **DBX** and the new **Servo FPC**

For more information on the Aquaflex family of printing solutions for the envelope, label and flexible packaging industries, please visit the website at

www.aquaflex.com.

Printing and the Envelope Industry

Mac Rosenbaum, VP F.L. Smithe Machine Co. and Aquaflex, will be part of a panel discussion at the EMA Technical Committee in April in Phoenix, AZ. Mac will discuss what we as envelope manufacturers can learn from the label industry. While we have come a long way from our first attempts at inline printing, there are many opportunities for envelope converters to increase margins by using flexographic printing technology. Mac's main topic for this discussion is how envelope manufacturers can easily make the move from litho to flexographic printing and prove to the end user that the final result is just as impressive. From quicker set-ups and changes to lower cost per unit, Mac will explain the methods used to attain litho-like results from flexographic printing. This is one presentation you will not want to miss.



Single Motor Drive Conversion

RA-SOF-328

- Converts older style dual motor drives to single AC motor drive.
- Higher energy efficiency.
- Lower motor maintenance (no brushes).
- Better speed control.
- No longer requires synchronization of motors during operation.
- Machines can now be operated at low speeds without damaging the motor.
- Manufacturers are no longer making replacement wound rotor motors.

Enhanced Single Motor Drive Conversion

RA-SOF-329

- All of RA-SOF-328 plus the following;
- All new electrical wiring for the machine.
- Touch screen interface for easier operation of the machine.
- Jam logic system, for quicker response and less waste due to jams.
- Two-handed jog system.

These Special Order Files are of limited quantities, attractively priced and available for immediate shipment.

WA SOF 539 - (Instruction 69GO) WA Straight Line Grooving System: This SOF grooves the incoming web to give the paper the look and feel of more expensive grooved sheets. This SOF can be attached to any web machine, is inexpensive and very simple to install.

HD SOF 55 - Timing Belt Drive: This file is the field installation kit to install a timing belt drive in place of the old style gear drive on the HD cutoff knife. This SOF is quieter and provides a more positive drive to the cutoff with less wear on the unit.

MOW SOF - 164 - Wide Transfer Segment After Cutoff: For better transport of the blank to the open-end cutters.

MO SOF-12 - Bevel Gear Drive: Eliminates the chain drive and provides better speed and more positive power transmission.

MOH SOF-8 - Non Contact Valco Parts: For better gumming.

RA SOF-144 - Linear Adjustment for the Panel Cutter: This file allows the panel cutter to be laterally adjusted approximately 5/16" (8mm) while the machine is running.





Share Our Newsletter

After you have read this edition of the F.L. Smithe Newsletter, give it to other folks you work with. A library of back issues should be available so that your people can benefit from reading them, especially machine adjusters. Call our Parts Department (814) 695-4838 about acquiring back issues.

Ease Your Operator's Day with the Automatic Envelope Stop



The automatic envelope stop increases productivity through less operator fatigue by eliminating the need for the manual envelope stop to be placed each time after removing envelopes from the delivery line. The Automatic Envelope Stop is easily installed in a minimal amount of time. The unit comes with two Plexiglas stops for smaller and larger envelopes. These two stops are easily exchanged. The Automatic Envelope Stop can be installed on any Champion SW, SR, and RA machines.

To order please specify **SW Special Order File M-70** for the SW, SR and RO and **RA Special Order File No. 330** for the RA.



Serving the Envelope Industry since 1904

BOOKS and DVDs

RA Owner's Guide – This booklet covers all Champion RA machines by serial number. By looking for the next highest serial number in the book you can easily see what can be done to your RA machines to enhance their operation, safety and performance. Each enhancement has a brief description and a Special Order File number enabling you to update and/or upgrade your Champion RA.

SR, SW & Aquaflex DVD– This DVD gives overviews on the SRW, SW, SSP and Aquaflex.

SRW (SR Web only) – Shows the SRW in production and the ease of size changing the machine. It highlights some of the new innovations of this latest Champion envelope machine.

SW – The DVD gives an overview of one of the most popular envelope making systems in production today throughout the world. It will show how quick and easy the SW is to run and change.

SSP – Highlighted on both the SRW and SW sections of the DVD, it explains how simple the Servo Stack Press is to operate and how easy it is to obtain high-quality printing at high speeds.

Aquaflex – The DVD gives a brief description of how well it fits with the F.L. Smithe "Champion" line of equipment.

Call F.L. Smithe Sales for your free copy

Machine Serial Numbers



Please remember to always include the serial number of your machine when ordering parts and/or special order files. This enables us to keep our records up-to-date concerning your machinery and helps to avoid ordering the wrong part or file for your machine.

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