

PAPER FOIL [FILM]

Affordable SERVO Performance

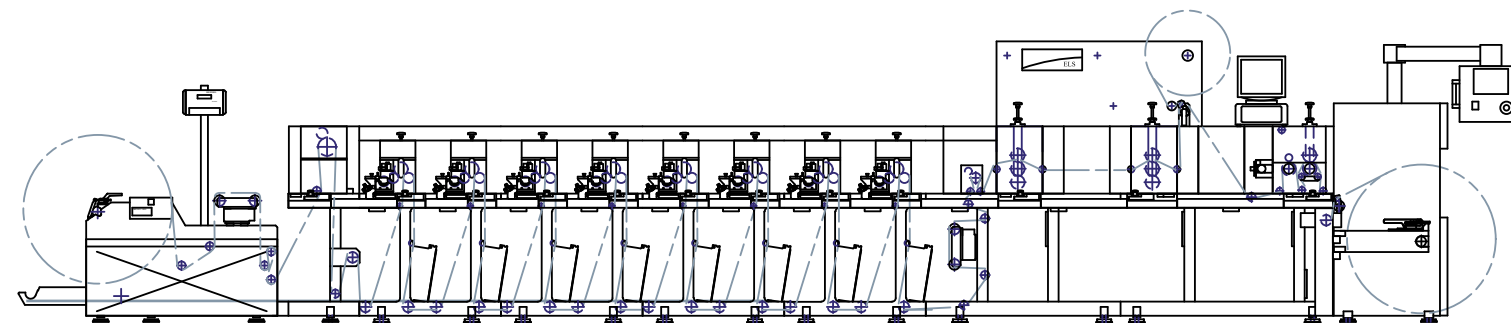
● The ELS Servo Press from Aquaflex

There is a **change** underway. Film and flexible packaging represent a growing segment of the label marketplace. To remain **competitive**, small and midsized converters must find ways to diversify their offering—without breaking the bank.

Introducing the ELS Servo from Aquaflex—with its precise registration and speeds of up to 750 fpm, the ELS offers the converter servo **performance** at a price comparable to mechanically driven presses in its class.

Aquaflex and F.L. Smithe have deep roots in the label industry and in-depth experience in servo engineering. We are innovators when it comes to reducing cost without compromising quality and performance. As a result, we can offer our loyal customers in this market a product that provides a practical upgrade path into **film and flexible packaging**. In fact, with available die and plate cylinder adapters for nearly all of your 6.5", 7.5", 10" and 13" tooling, we have made the upgrade even more practical.

The ELS Servo offers Aquaflex sturdiness, performance and value. It will broaden your capabilities—and your market opportunities.



ELS Servo 1000 Specifications:

	10"	13"	16"
Web Width Clearance	10 1/4"	13 1/4"	16 1/4"
Maximum Printing Width	10"	13"	16"
Printing Stations	Up to 12 colors	Up to 12 colors	Up to 12 colors
Print Repeat	6" to 24" standard	8" to 24" standard (6" to 8" with adaptor)	8" to 24" standard (6" to 8" with adaptor)
Print Cylinder Shaft Diameter	5/8"	3/4"	3/4"
Impression Cylinder Diameter	2.86"	2.86"	2.86"
Plate Cylinder Gearing	1/8" CP	1/8" CP	1/8" CP
Print Station Frame Thickness	5/8"	5/8"	5/8"
Motorization	SERVO	SERVO	SERVO
Register	360°	360°	360°
Die Cutting Stations	2 std	2 std	2 std
Die Cutting Width	10"	13"	16"
Maximum Die Cutting Repeat	24"	24"	24"
Anvil Cylinder Diameter	3.82"	3.82"	3.82"
Removable Anvils for Die Station	2	2	2
Die Station Frame Thickness	3/4"	3/4"	3/4"
Unwind Capacity	42"	42"	42"
Rewind Capacity	42"	42"	42"
Waste Rewind Capacity	24" (42" optional)	24" (42" optional)	24" (42" optional)
Waste Rewind on Rail System	42"	42"	42"
Unwind Roll Lift	Pneumatic	Hydraulic	Hydraulic
Power Requirement	240 VAC	240 VAC	240 VAC or 480 VAC
Air Pressure	100 PSI – 7 bars	100 PSI – 7 bars	100 PSI – 7 bars
Speed	750 fpm	750 fpm	750 fpm
Press Color	Charcoal and Red	Charcoal and Red	Charcoal and Red



The Future of Flexography

www.aquaflex.com

Aquaflex is a Division of the F. L. Smithe Machine Company, Inc.
899 Old Route 220 North Duncansville, PA 16635
Tel: 877-247-6627 Fax: 814-695-0860 International: +1-814-695-5521

ELS
SERVO

Labels, Tags and Flexible Packaging



PAPER FOIL [FILM]





Labels, Tags and Flexible Packaging

Servo Drive Technology

The servo drive system helps the ELS maintain extremely tight registration.

In general, there are fewer gears than a comparable mechanically driven press. Also, none of those gears carry load. Driven rolls that carry load—such as the infeed, midfeed and impression rolls—are directly driven by a servo motor. There is no tolerance build-up in gears, and no line shaft deflection. And the ELS Servo's Delrin gearing requires no lubrication system.

In addition to registration integrity, the servo system greatly reduces part degradation. You will experience much less stress, wear and maintenance than with your standard mechanical press. Speed, precision and reliability—exactly what you would expect from the pioneers in servo drive technology.

Intuitive Register Control

The ELS Servo's servo drive offers the operator unparalleled precision and flexibility. The operator can make lineal registration adjustments in precise .001 increments, as well as high-speed course adjustments, with the touch of a button. The ELS Servo is PLC-controlled and allows 360° registration.

Often, as tension varies during acceleration, register can drift—resulting in hundreds of feet of product waste. The ELS Servo's Intuitive Register Control monitors the speed change, anticipates variations, and holds registration reliably. The ELS Servo reduces waste and delivers salable product throughout the acceleration process. With Intuitive Register Control, it's all good!

Advanced Inking System

The ELS Servo's ergonomic, user-friendly inking system represents a significant advancement in press design. This is a two-roller inking system where both the anilox and doctor rolls are designed for tool-less exchange.

The entire inking system is housed in a drawer that pulls out for easy changeovers, including independent anilox drive. The drawer is designed with Delrin gearing. There is no metal-to-metal gearing in the drawer, making it practically maintenance-free.

The ELS Servo features a new anilox roll quick-release drive hub that eliminates the need for expensive gear clusters and creates a smoother drive. The doctor blade assembly has both a running and a setup position for a clean exchange of rollers. The anilox rotates off-line, so the operator can set up the unused stations while the press is running.

The doctor roller rests in a deeper ink pan and runs at half the speed of the anilox. The doctor roll carries ink to the anilox roll, eliminating the possibility of cavitation. This efficient delivery method allows you to increase the running speed of the press—up to 750 fpm—with no ink disturbance.

You have the option to run a two-roll system without using a doctor blade for increased coat weights. This system also allows for ink of any viscosity to be transferred efficiently. The ink pan has a running and a set up position to facilitate clean ups and changeovers.

Aquaflex can confidently say that the ELS Servo offers the most robust inking system in the industry today.

Drying Options

The ELS Servo gives you the flexibility to handle a variety of drying needs. It features a new high-capacity dryer package for non-absorbent material. Each station of the ELS Servo is equipped with its own enclosed recirculatory dryer, which allows for a smaller footprint.

Closed loop variable control allows for individual heat management at each station. There is also the option of UV curing on any or all of the flexo print stations.

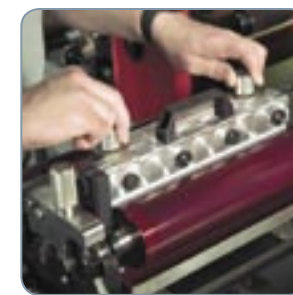
Each dryer can be equipped with either hot air or IR drying, or both. Extra IR bulbs can be added to increase dryer capacity.

Each dryer is also equipped with web support for filmic materials. The dryer hood is designed for drying non-absorbent materials with high velocity air while maintaining proper web support.



Servo Drive Technology

- Load-carrying rolls are servo-driven
- No tolerance build-up in gears, and no line-shaft deflection
- Delrin gearing—requires no lubrication system

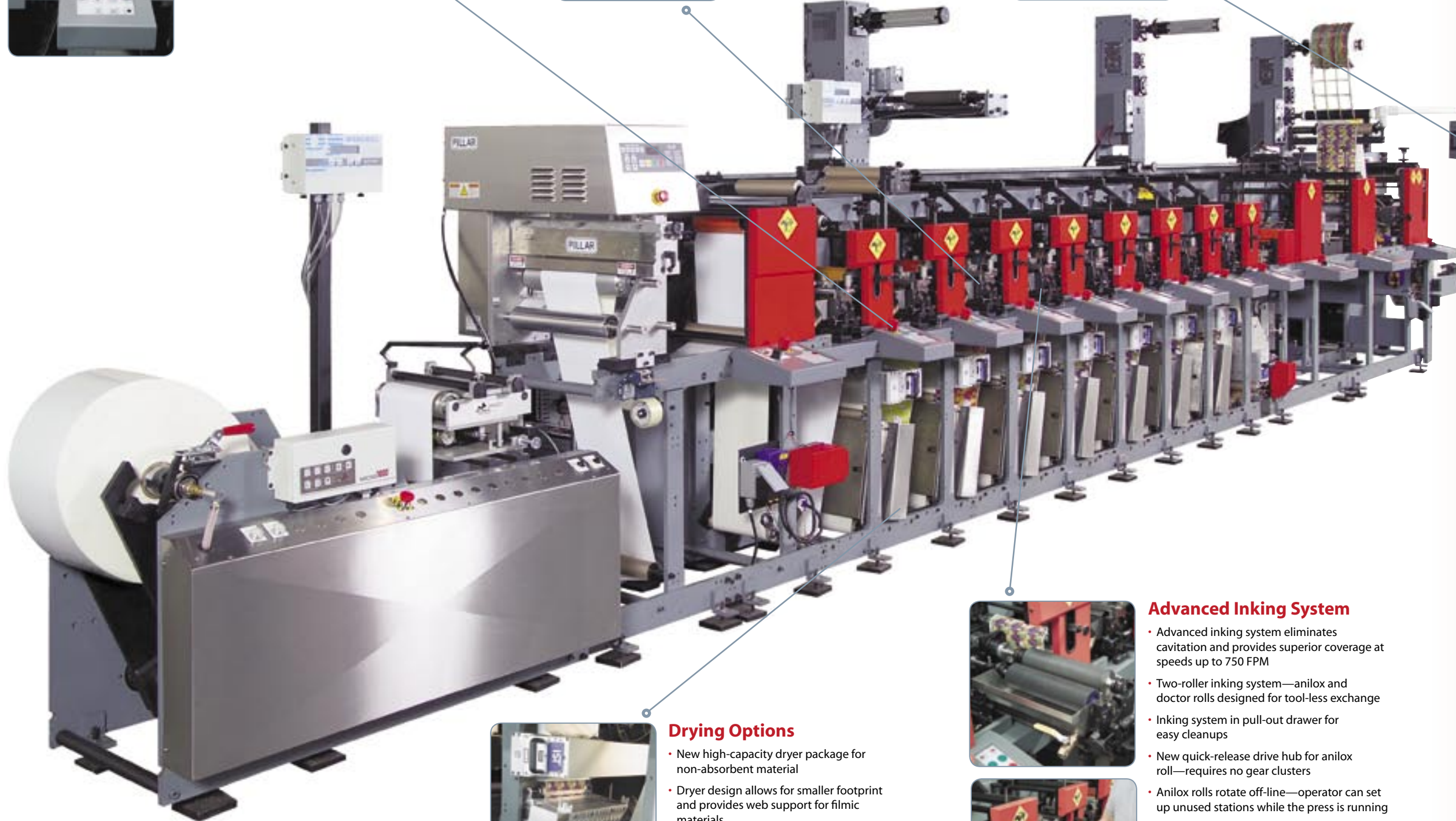


Tool-less Changeovers



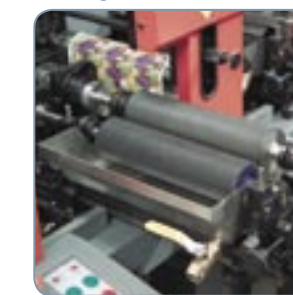
Intuitive Register Control

- PLC-controlled allowing 360° registration
- Registration adjustments in .001 increments
- Intuitive Register Control eliminates registration drift during acceleration—it's all good product



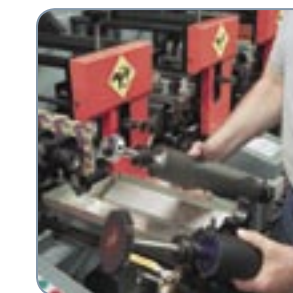
Drying Options

- New high-capacity dryer package for non-absorbent material
- Dryer design allows for smaller footprint and provides web support for filmic materials
- Hot air or IR drying or both
- Each print station is UV-ready



Advanced Inking System

- Advanced inking system eliminates cavitation and provides superior coverage at speeds up to 750 FPM
- Two-roller inking system— anilox and doctor rolls designed for tool-less exchange
- Inking system in pull-out drawer for easy cleanups
- New quick-release drive hub for anilox roll—requires no gear clusters
- Anilox rolls rotate off-line—operator can set up unused stations while the press is running



WHY CHOOSE AN ELS SERVO?

- Reliable servo drive
- Exceptional repeatability
- Prints on paper, foil and film
- Print speeds up to 750 FPM
- Lower maintenance costs
- 360° registration
- Automatic plate cleaning feature
- Faster changeovers—no tools required
- Faster make-readies with less waste
- New high-capacity dryer package for non-absorbent material
- New doctor roll system for high-speed printing
- New robust inking system
- New anilox roll quick-release drive hub
- New Intuitive Register Control™ eliminates waste during speed changes
- Closed-loop unwind with electronic tension controls
- Closed-loop endfeed with electronic tension controls
- 42" rewind features a "swing away" support arm for quick removal of finished roll
- Adaptor kits available for most existing tooling
- Simplified computer-controlled operations