

Servo3000 Infeed Mode

“solving web tension issues by dramatically reducing waste in areas once believed part of the process.”

SERVO 3000 DRRS

DIGITAL
INFEED
RE-REGISTER
SYSTEM



If all parts of a press are geared together, start together, stop together, and change speed together, then why should there be any material waste besides initial setup? Because the web is not always doing what the press is doing.

The amount of material used during make-ready, the running waste due to floating registration, the hundreds of feet of material used to regain registration after stops or web splices, are all contributable to web tension. Put a price tag on this waste and the dollars add up fast. The Servo3000 revolutionizes this process.

Using a proprietary algorithm, the Servo3000 provides web tension control by precisely metering materials into a press and takes into account the elastic properties of the web. The principles behind this are simple – maintain web tension by forcing the web to do exactly what the press does in terms of timing, speed, acceleration and deceleration.

Basic tension systems fail at this because they are not dynamic enough to match the press's running conditions.

Automatic tension systems are better, but the problem is they measure tension then adjust tension. To adjust tension is to adjust the speed of the web. Why would the web speed need to change if the press speed remained the same? Because the system lags behind the press and it needs to compensate for its own error.

The advanced Servo3000 filters the elastic properties of the web and breaks one press revolution into millions of individual parts. It then meters the web to follow those individual parts with digital accuracies.

The result is an extremely consistent web tension because the web never loses site on what the press is doing.

This is how the Servo3000 significantly reduces make-ready material, practically eliminates running waste, quickly regains registration after stops or web splices, and allows the running of a broader range of material.

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The Servo3000 settings are digital making repeatability simple – material settings remain the same. Furthermore, the light tension settings allow thin filmic materials to run on standard label presses.

Doing the due diligence to measure current waste makes it easy to justify the Servo3000. It installs on and upgrades nearly every web press. And, as a bonus, it's a Reregister System.

