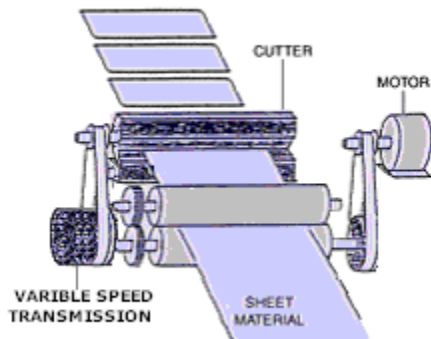# APPLICATION SOLUTIONS

Product: PAXDR
## Application #1 - Cutting paper sheets on a continuous web

In this application the machine cuts sheets of paper from a continuous web by monitoring the speed of the rotary cutter and the line speed. Both the web and the cutter are driven by the same drive, however the cutter connected thru a variable speed transmission. Sensing gears are mounted to the shafts and proximity sensors are used to sense both the web and the cutter speeds. Changing the speed of the variable speed transmission changes the **RATIO** of the cutter versus the line speed, which increases or decreases the length of the sheets being cut. The optional setpoint card is added to provide control of the sheet length.

## Application #2 - Maintaining the proper stretch of the film
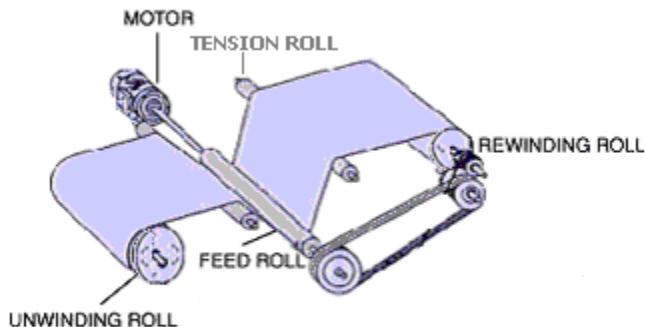
Obtaining the proper thickness of film can save the packaging company quite a lot of money. To obtain the thickness, the material needs to be stretched. This can be accomplished by measuring the feed roll and the tension roll speeds to insure they are running at the proper speed to obtain the thickness desired. The **DRAW** can be determined from these two measurements using the PAXDR. Control of the thickness can be added by using the optional setpoint card. Using a communication card allows all collected data to be sent to the management computer system for further tracking.

Application #3 – Speed Synchronization
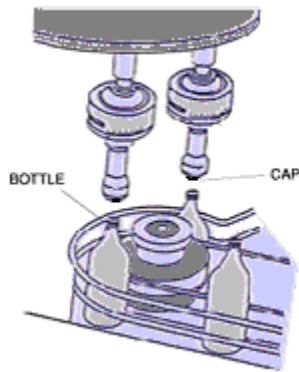
In this bottle filling application, it is critical that the bottle line and the capping line run at the exact same speed. The line speed is sensed with proximity sensors measuring each line. Using the PAXDR in the **Speed Difference** mode, both lines can be monitored. Display "C" will display the difference in the line speed. Adding the optional setpoint cards, the line speed can be controlled to insure they continue to match.

Application #4 – Wire Coating
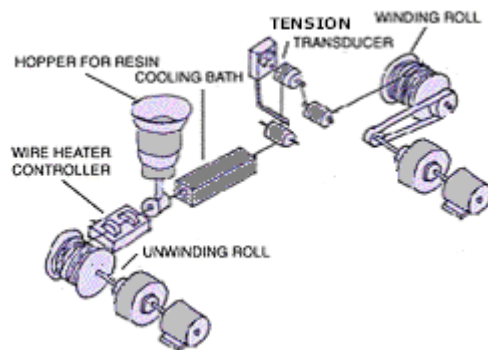
Applying the external coating to wire requires that the proper tension be place on the wire during the process. If the proper tension is not maintained, the wire will be out of specification and cannot be sold at full value. Measuring the speed between the unwind roll and the rewind roll will provide us with the desired display. Using the math function we could read the display as a **Ratio** or **Draw** of the wire. For automatic corrections, the optional setpoint card can be added.