



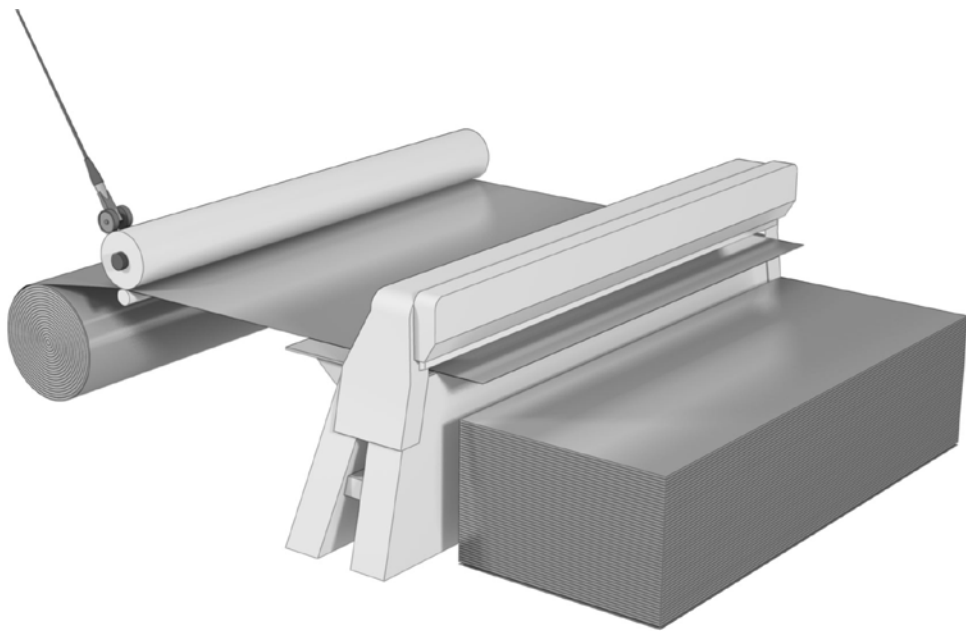
APPLICATION SOLUTIONS

Application #1 – Cutting Metal Sheets

A sheet metal former has metal film on a roll. He needs to cut various length sections at different lot quantities per the requested job. He wants a two line display with the running total of the pieces on top and the length (cut setpoint value) that he is presently using on the bottom. The PAX2D with the quad setpoint card and a quad RLC encoder will fit the need.

The PAX2D would be scaled to show measurements to 1/10 of a foot. Counter A would show the length of the sections and Counter C would show the running total. Either or both of these counters could be programmed to be displayed on the top line.

The first output of the setpoint card would be programmed to stop the line at half of a foot before the cut. With setpoint tracking feature, the stop value would only have to be programmed once. The second setpoint (cut length) would be shown and accessible to the operator on the bottom line. Both of these would be programmed to Counter A. The third output (job finished) would be assigned to Counter C. This could be shown and accessible to the operator on the bottom line, also.



Application #2 – Paper Manufacturing Speed Ratio

A paper manufacturer would like to maintain a maximum but safe operating speed and maintain a tight relationship between two rollers or his product will break or bundle up. Outputs are needed to signal when the speed relationships of the rollers are out of sync and/or signal when the overall process is running too fast. He would also like to know how many feet of paper were run. Red Lion Controls can fulfill all the requirements of the system with two sensing gears, pick-ups and the dual display meter PAX2D with a quad setpoint card installed.

With the PAX2D, Roller #1 (Rate A) and Roller #2 (Rate B) can be scaled to show feet per minute. Counter A can be scaled to totalize the amount of paper, in feet, that was run. The relationship between A (Roller #1) and B (Roller #2) can be setup up as Rate C. The counter display and/or the rate displays can be shown at the same time in any two combinations with the dual line meter.

With the quad relay card in the PAX2D, a setpoint can be program to give an alarm if the overall process is running too fast. If Rate A becomes higher than Rate B then the calculation (Rate C) will become more positive. A setpoint can be assigned to monitor this value. If Rate B becomes higher than Rate A then the calculation (Rate C) will become more negative. The third setpoint can be assigned to monitor this value. A fourth setpoint could be used to signal when the totalizer reaches the end of the job lot.

