

AUTOMATED SAWING OPERATION

Background

A number of industrial processes require the precision sawing of raw material to standard lengths. The material can be wood, metal or plastic, but if you need them to be uniform, then an automated feed mechanism is a must.

The controller just needs to count the number of pulses coming out of the Draw Wire mechanism and the saw will make the perfect cut every time

Solution

In our example a metal rod is being cut into uniform circular sections. The feed mechanism uses a draw-wire encoder installed so that as the metal rod is fed into the blade area, the spring-tensioned wire retracts. The controller just needs to count the number of pulses coming out of the Draw Wire mechanism and the saw will make the perfect cut every time. Since the output from the Draw Wire Encoder is compatible with industrial counters/controllers, it's easy to reprogram it for different length cuts.



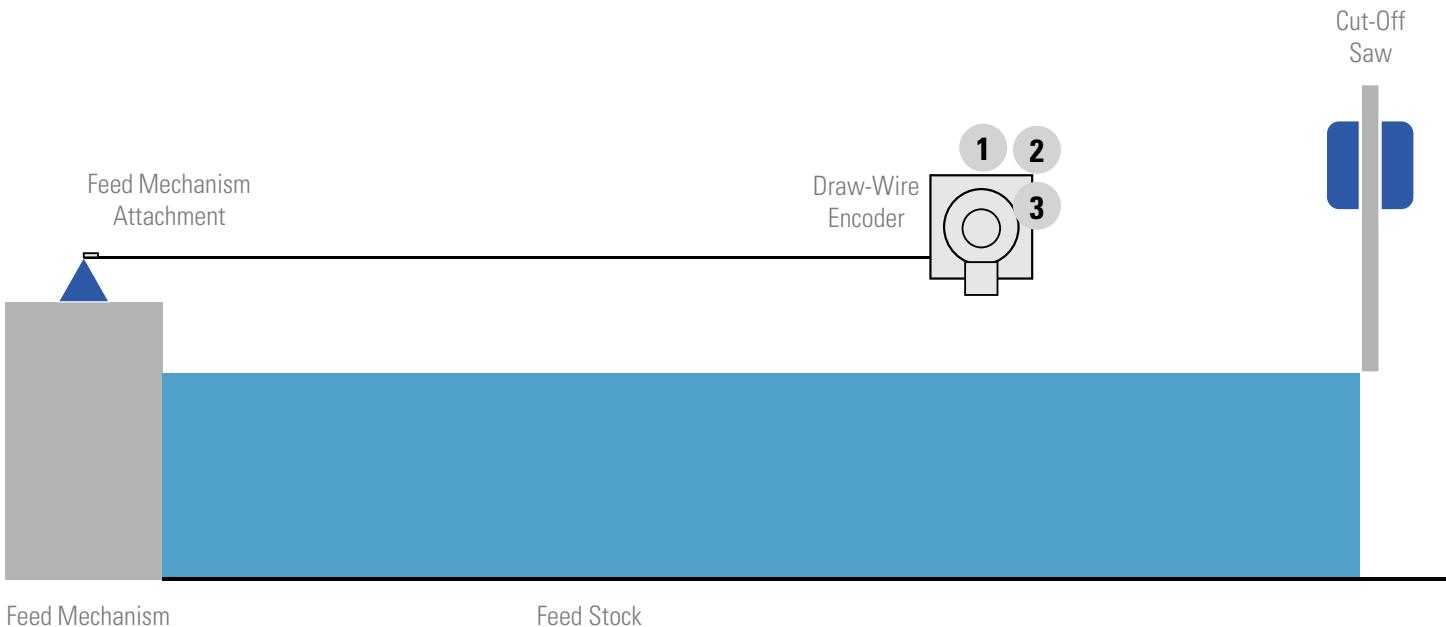


RECOMMENDED PRODUCTS

Reference on Diagram	Product	Type	Features	Features	Brand
1		CD120 Draw-Wire Encoder	Up to 10' of Measurement	• Length (Distance) Measurement	BEI Sensors
2		CD150 (Analog) Draw-Wire	Up to 19.7' of measurement	• Analog length Measurement	BEI Sensors
3		CDS12 (Analog) Draw-Wire	Up to 49.2' of measurement	• Analog length Measurement	BEI Sensors



SEMI-AUTOMATED CUT-TO-LENGTH OPERATION



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