

## 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.

### 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.

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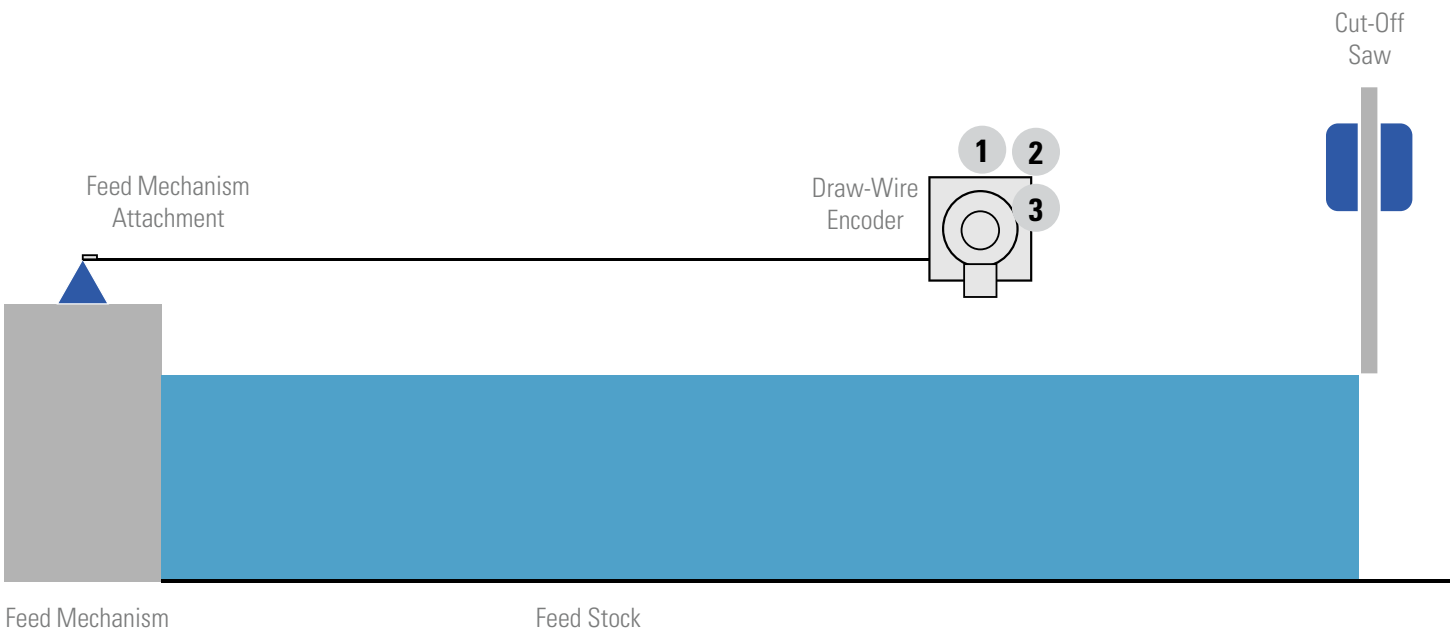


## RECOMMENDED PRODUCTS

| 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 Encoder | Up to 19.7' of measurement | • Analog Length Measurement     | BEI Sensors |
| 3                    |  CDS12 (Analog) | Draw-Wire Encoder | Up to 49.2' of measurement | • Analog Length Measurement     | BEI Sensors |



## SEMI-AUTOMATED CUT-TO-LENGTH OPERATION



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