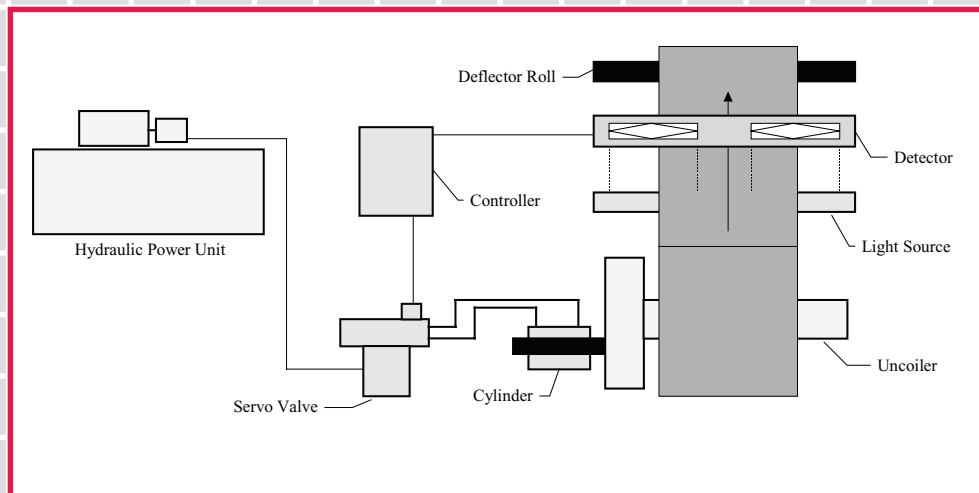


Uncoiler Center Guide Control System With Detector Mounted After Coil



This closed loop proportional control system uses a center guide detector that is located as close to the coil as possible. Positioning the detector as close to the coil as possible, provides the ultimate in control performance.

The detector senses both edges of the incoming strip and provides an analog output proportional to the lateral position of the strip. This signal is processed by the electronic controller. The electronic controller compares the detector signal to the set (guide) point, any difference results in an output to the hydraulic servo system which moves the uncoiler, positioning the strip until the strip is centered in the detector's field of view. The result is that the uncoiler continuously positions the lateral position of the strip centerline to the process centerline.

An electrical or mechanical strip offset control is available, which allows a user to shift the detector's control (guide) point to a newly desired control (guide) point.

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