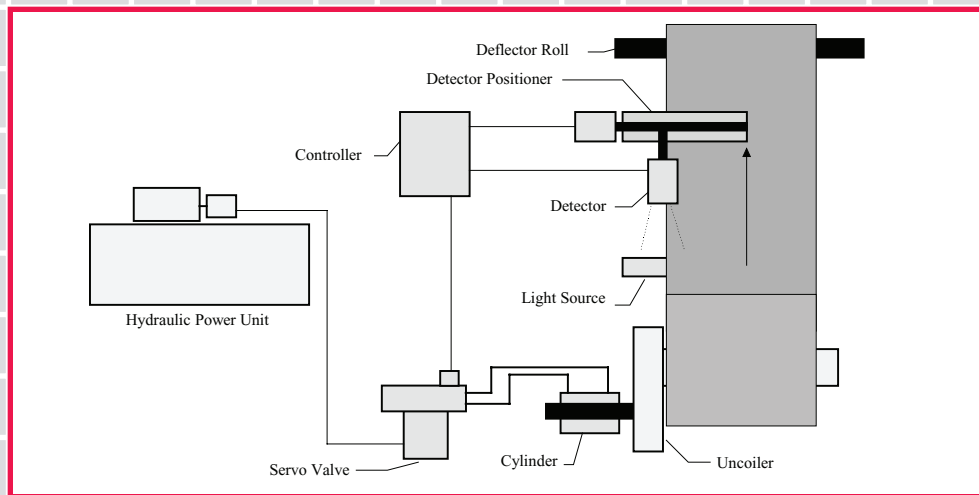


Uncoiler Edge Guide Control System With Detector Mounted After Coil



This closed loop proportional control system uses an edge 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 the edge 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 edge is "centered" in the detector's field of view. The result is that the uncoiler continuously positions the lateral position of the guided strip edge to a referenced edge position.

Once a new coil width is presented, the edge detector, with its' small field of view, has to be repositioned to a new strip edge. These requirements are typically addressed by mounting the edge detector to a detector positioner. The positioner could be motorized with push button control or the positioner could be automatically controlled with a self-seek circuit.

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