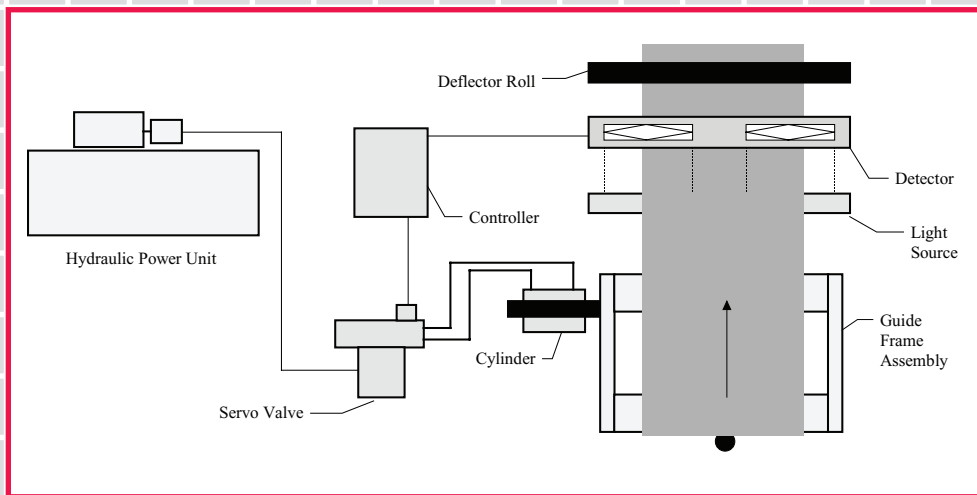


Center Guide Control System

for a Guide Roll



This closed loop proportional control system uses a center guide detector that is located after the guide roll assembly. Positioning the detector as close to the guide roll assembly 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 guide roll assembly, positioning the strip until the strip is centered in the detector's field of view. The result is that the guide roll assembly 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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