

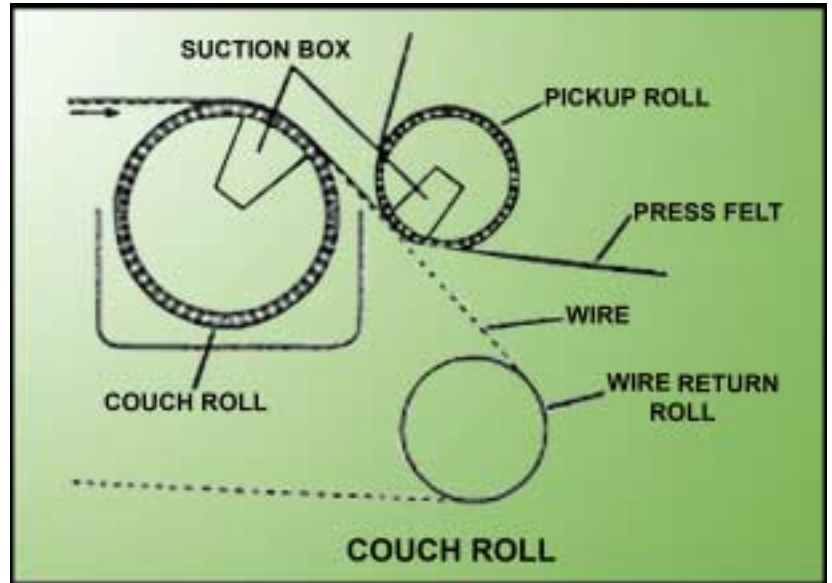
## COUCH ROLL

**Couch Roll** is a hollow, perforated shell containing one or two stationary high-vacuum suction boxes for dewatering the sheet. The couch roll supplies much of the drive to power the forming wire across the forming table. The couch is a stationary roll with a rotating, porous cover.

The couch, which is the last vacuum service on the forming section of the paper machine, has been called the most important dewatering service on the paper machine. The dryness of the sheet as it exits the couch and enters the press section affects the dewatering characteristics of the press section and steam consumption in the dryer section.

The function of couch roll (pronounced "cooch") of a paper machine is to remove water by application of vacuum. It also serves as the final "wrap" where the wet web exits the forming fabric on its way to the wet-press section. The surface of the couch roll is covered with rows of small holes. Baffles within the interior of the couch roll direct the vacuum toward that segment of the roll where the wet web is on the fabric.

The dryness of the sheet as it exits the couch and enters the press section affects the dewatering characteristics of the press section and steam consumption in the dryer section.



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