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## **CONSTANT TENSION INFEED**

### **SLIDE**

- NIPPING ROLLER** Ensures that the paper cannot slip and that the tension is totally controlled by the infeed. It is essential that the rubber roller is capable of hard pressure to ensure that high tension can be obtained where necessary to obtain high tension.
- TENSION ROLLER (dancer roller)** Measures any variation in tension from a set point and sends instruction to a reference motor to alter speed in order to return the tension roller to its reference position. Movements are sensed through a load cell.
- AIR CYLINDER** Applies resistance pressure to tension roller which can be varied according to tension required, i.e higher tension, paper has to be slowed down to bring tension roller to zero.
- HARMONIC DRIVE** Very accurate method of varying infeed mechanical speed from a reference motor. The speed is altered through a hypocycloidal gear.
- REELSTAND/SPLICER** The reelstand/splicer also has a reference roller which operates a brake on the running reel in order to maintain tension. The reelstand tension however is not sufficient to maintain tension on a four colour blanket to blanket press.
- TENSION MEASURING ROLLER** Some presses have a tension measuring roller between the chill rolls and folder. This gives a digital readout from load cells and is very useful for indication problems and effects.

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