EV Optimization™ DRYING SECTION

EVsf2 web stabilizer

eliminates sheet flutter in single felted dryer sections

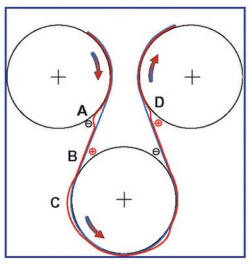
Situation

Optimum air permeability, fabric caliber and structure are important on single felted sections to minimise surface speed differences. Speed variations may cause sheet flutter which results in unnecessary stresses to be imposed on the sheet.

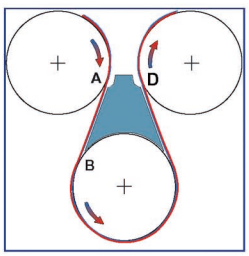
The moving surfaces create vacuum in the nip (A) between the sheet and the upper cylinder. This vacuum produces air flows which lift the paper web upwards from the fabric. The air flows directed from the edges towards the centre of the machine cause the edge flutter.

In the nip (B) between the fabric and the lower cylinder overpressure is created by the moving surfaces. In case of high fabric permeability, the air flows through the fabric and tends to lift the sheet from it, often across the entire width of the sheet (C).

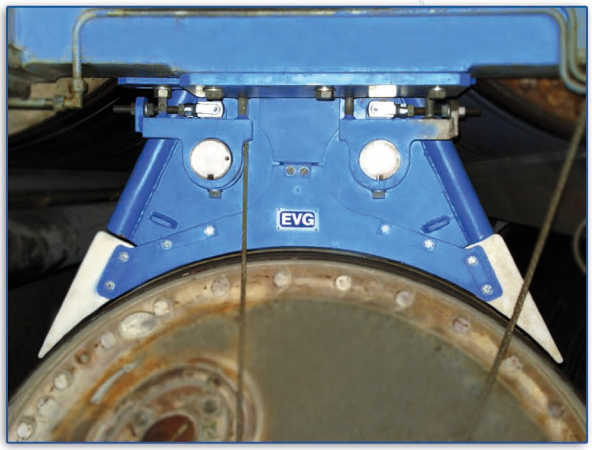
If the fabric has too low permeability, the air between the sheet and the fabric cannot flow out quickly enough and an air bubble is formed in the nip (D). This leads to sheet creasing in the section.



Sheet flutter problem



EVsf2 web stabilizer effectively eliminates sheet flutter problem



Solution

EVsf2 Web Stabilizer blows air out between upper and lower cylinder area. The secondary air, which is evacuated, creates vacuum and the web is pressed effectively against the fabric in the entire area.

The air is prevented from building up between the web and fabric and no air bubble will form in the upper nips.

EVsf2 Web Stabilizer combined with the suction roll gives even more capacity to speed up your paper machine.

As a result

- Desired balance between drying efficiency and runnability is achieved
- Higher paper machine speed is possible
- Fewer web breaks
- Easier tail threading
- Lower draw - less chemical pulp and easier to achieve strength requirements
- Better paper quality

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