Easier dual vacuum box chamber adjustment

Vacuum adjustment system for suction rolls

Many rolls have separate low- and high-vacuum chambers, which improves the pick-up process by preventing sheet edge fluttering and web breaks. However, achieving the correct vacuum level between the low- and high-vacuum chambers can be difficult. Usually, the adjustment has to be done by pulling the suction box out of the roll and changing the position manually. This is a time-consuming process, and the correct level can be found only by trial and error.

Benefits

- Improved tail threading
- Stable sheets without fluttering
- Improved runnability, fewer breaks in the process
- Easier adjustment

Adjustment without pulling the suction box out

Optimizing the suction zone in the pick-up rolls improves paper machine runnability before the first press. It stabilizes the web before it reaches the press section. However, achieving the correct width for the low-vacuum box may take many rounds of adjustments and tests.

This Valmet upgrade adds the possibility of external suction zone adjustments for the pick-up roll. Hence, the upgrade provides the possibility to adjust vacuum levels between the vacuum chambers from the FS head plate without pulling the suction box out.

The upgrade can be carried out for all suction rolls with dual zones, and it can be done in connection with an improved pick-up upgrade.