Improved edge relief
Valmet shoe type roll upgrade edge zone

A single-zone shoe roll is a typical solution in press sections. These kinds of rolls cannot recognize different pressure requirements in pistons between the center and ends, and therefore have problems with web edge profiling. A Valmet shoe type roll upgrade edge zone provides a solution for more extensive adjustment of nip load.

Benefits
- Prevents dry edge problems
- Enables a wider paper sheet
- Boosts SymBelt edge relief

Prevents dry edges

Basically, the upgrade provides edge loading, by adding a separately controlled pressure to one shoe at both edges. This requires additional piping, a new valve for connecting the line to roll’s hydraulic system and reprogramming to the hydraulics control system. These small additions make it possible to adjust the edge nip load separately from the other shoes.

With single-zone rolls, it is not possible to adjust the pistons differentially due to one single hydraulic line connecting all the shoes together. With Valmet shoe type roll upgrade edge zone, the edges can be controlled separately, preventing dry edges and enabling wider paper sheet or more consistent paper quality in the edge area. A similar system is already used in Valmet’s SymBelt Shoe Press Roll, and its edge relief effect is boosted when combined with an upgraded Valmet Sym Nip Roll. The upgrade provides an ability to control the edges.

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