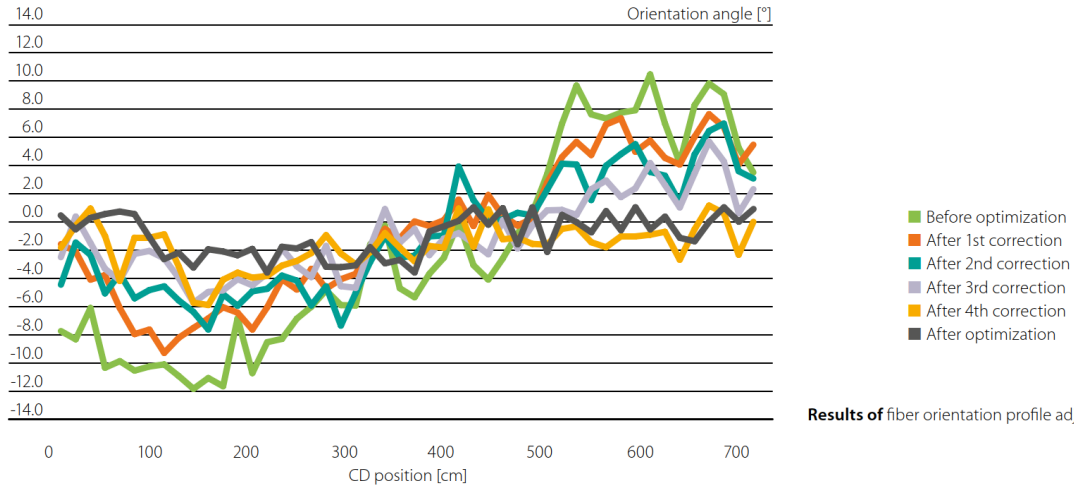


Fiber orientation optimization

To improve runnability and paper quality



The sheet's fiber orientation plays a significant role both in terms of paper quality and machine runnability. A good fiber orientation profile reduces the sheet's sensitivity to disturbances and its break propensity. Poor fiber orientation-related quality problems may include the curling of the paper or board, slack end-cut customer rolls and register problems in printing. A poor profile may also cause the sheet to fold over at the dryer section or in coating.

Benefits

- Improves runnability of paper/board machine and converting plant

Service description

The sheet's fiber orientation angle profile can be adjusted very straight by simulating the headbox flow field and setting the slice opening manually, as indicated by the simulation results. The headbox simulation and slice profile adjustments help to produce a slice opening profile that provides an optimally straight fiber orientation angle profile.

Scope of service

- Headbox operational inspection
- Optimization trials:
 - Operation parameters
 - Orientation measurement
 - Simulations with HOCS
 - Adjustments (edge flows, slice opening)
 - Jet velocity profile measurement (optional)
 - Layered orientation measurement (optional)

Recommended service interval

When needed

Duration of full service

1-3 days

Performed during shutdown

3-9 hours

Performed during operation

9-27 hours

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