

Reducing the winding broke with iRoll multivariable profile control

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Production efficiency, excellent paper profiles and cost savings are common targets for all paper makers.

The reeling and winding broke amounts from the past reaching to couple of percent or even higher, are unacceptable in today's tough market situation. Besides these, also providing the best possible customer satisfaction for end product users is crucial on today's demanding markets. Now producers are also utilizing bigger and faster machines with complex product mix, the efficiency targets are reaching levels not seen before.

Valmet's iRoll technology with hardness profile control tackles these challenges. The iRoll Reel Drum is the Valmet concept for hardness profile improvement with multivariable controller. The iRoll hardness profile control can use the profiling tools available; e.g. head box actuators or calender zone controlled rolls and induction profilers. Together with this optimal control strategy for variable grades the winder broke can be dropped significantly, which is a remarkable improvement to new levels and to production line profitability.

Now the demands for high speed, top product quality, wide product mix and excellent material efficiency could all be met at the same time.