OPTIMIZATION IN SUPERCALANDER BY CONVERTING UNIROLLS TO ONE-PIECE LÜRAFLEX® SPREADER ROLLS

LÜRAFLEX®
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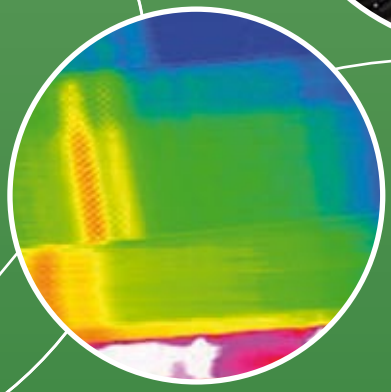
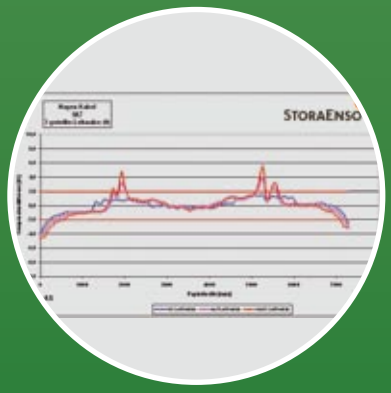
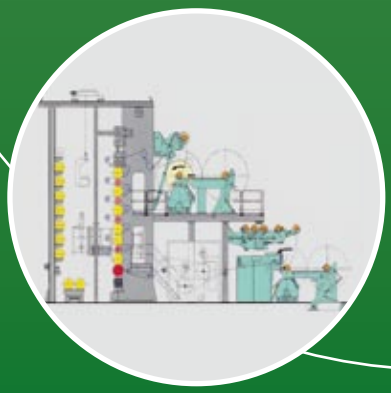
A well-known problem in the supercalander involves unirolls.
They cause some difficulties due to their complex three-piece construction.







CUSTOMER PROBLEM

- Overheated bearings resulting in different gloss values in the form of lengthways stripes or different moisture profiles. This is indicated by „wavy“ paper webs and leads to poor paper roll winding.
- Complex and expensive repairs.
- High wear of bearings and clutches, risk of grease escaping and therefore paper waste.
- The paper web is subjected to its greatest load between calander rolls 1 and 2. This is where the most „instability“ occurs.

SOLUTION

To achieve greater operating reliability, unirolls are provided with LÜRAFLEX® spreader roll coverings.
The LÜRAFLEX® system offers this solution in conjunction with a conversion to internal gear single-piece tubular rolls.

- The spreading effect is achieved by deflecting lamellas under web tension from the centre to the left and right ends.
- Reuse of existing guide roll axles.
- A constant uniform temperature across the entire paper width is achieved by reducing the number of bearings.

CUSTOMER BENEFITS

- Better cross profiles by eliminating temperature differences caused by bearing points.
- Lower maintenance costs and longer maintenance intervals.
- Savings through fewer wear parts (clutches), reduced paper waste.
- Elimination of complex roll adjustment.
- Optimum spreading effect, elimination of paper creases and „quieter“ paper web due to the cylindrical shape.

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