



DuBois
DuPulse™

Press Stable Method of Felt Cleaning
U.S. Patent, No. 7,597,782

DuPulse™

The DuPulse strategy brings the latest innovations in felt cleaning technology to your press section. This application technique combines a patent pending feed strategy with automated control. This dual approach brings a level of stability and performance to your press section that is unmatched. In addition, the DuPulse strategy offers cost savings versus fan shower based on-the-fly and continuous felt conditioning.

Runnability Benefits

- Eliminate sheet breaks, shadow marks, or off quality paper caused by water overloading during on-the-fly felt washing
- Dramatically improve your press section performance with improved sheet profiles while increasing sheet solids into the dryer section

Superior Performance & Chemically Cost Effective

- 10–40% chemical savings possible
- Injects the cleaner deep into the felt, opening the base as well as the batt
- Continuously removes both organic and inorganic deposits

Enhancing Press Operation Stability

- No additional water is added for washing operations—eliminating variations in water loading
- Concentrations are optimized to remove deposits without adversely affecting the sheet quality
- Vacuum, pH, and permeability are controlled to a consistent level
- Automated control ensures a consistent application
- Press stability is maximized during felt cleaning

Exceptional Flexibility

- Concentration, duration, frequency, chemistry, and chemical application ratio are tailored by felt position on each paper machine
- Instant program modifications can be easily made at touch screen monitors mounted alongside the press section

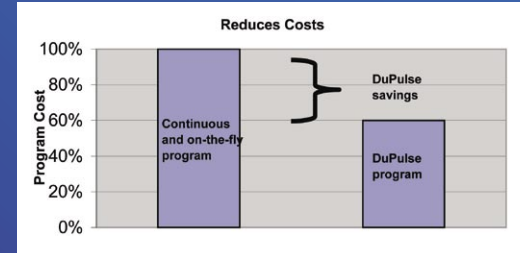
Green Chemistry Features

- Relatively low chemical concentrations reduce the pH impact in the return white water
- Worker contact and exposure risk is minimized

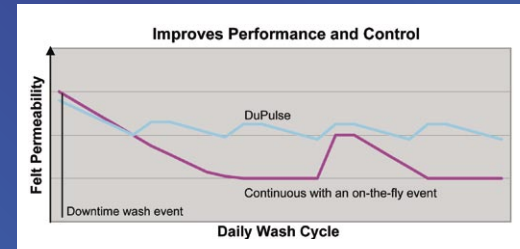
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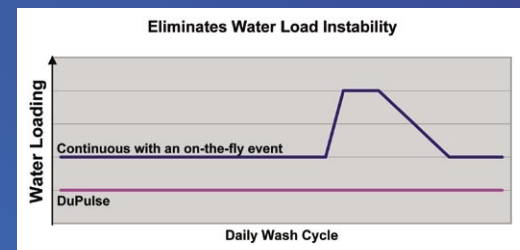
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The DuPulse method can save up to 40% over fan shower based on-the-fly and continuous felt conditioning.



The DuPulse cleaning method maintains consistent high felt permeability following downtime wash events.



The DuPulse method does not add water to the press felts as other methods do.