TECO Technical Solution #6

Fast, On-line Freeness Measurement is Required for Closed-loop Refiner Control

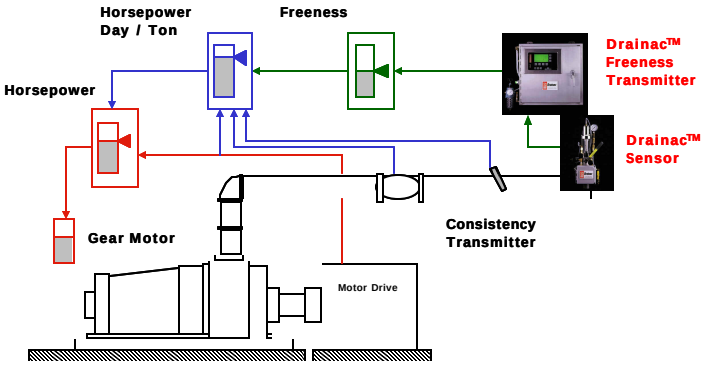
Problem / Issue: Closed Loop Refiner Control Requires Fast, On-line Freeness Measurement

TECO Solution: Drainac™ On-line Freeness Transmitter.

Overview: Closed-loop refiner control can significantly improve final sheet quality by lowering furnish variations, improving fiber preparation, and minimizing energy requirements. To accomplish this task, fast on-line freeness measurement is required to maintain the necessary setpoint and feedback for the cascade controls.

How the TECO Solution Solves The Problem… The Drainac™ On-line Freeness Transmitter is the fastest, on-line freeness transmitter available today. The Drainac™ measures drainage rate every 20-30 seconds, making it ideally suited for closed-loop refiner controls. This allows for any refiner control strategy to immediately adjust to variable conditions, resulting in better quality control, as well as improved paper machine runnability.

Drainac™ Application - Refiner Controls



Benefits

Higher Productivity – by minimizing off-quality rejects due to sub-standard furnish
Lower Production Costs – by lowering overall breaks due to furnish variations
Improved Runnability – through consistent fiber preparation
Improved Quality – by decreasing furnish variability

Who is it Important to ?

Stock Prep Superintendent
Paper Machine Superintendent
Process Control Engineer
Maintenance Manager
Instrument Superintendent

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