

Reel Component Misalignment Can Cause Real Issues

Presented by:



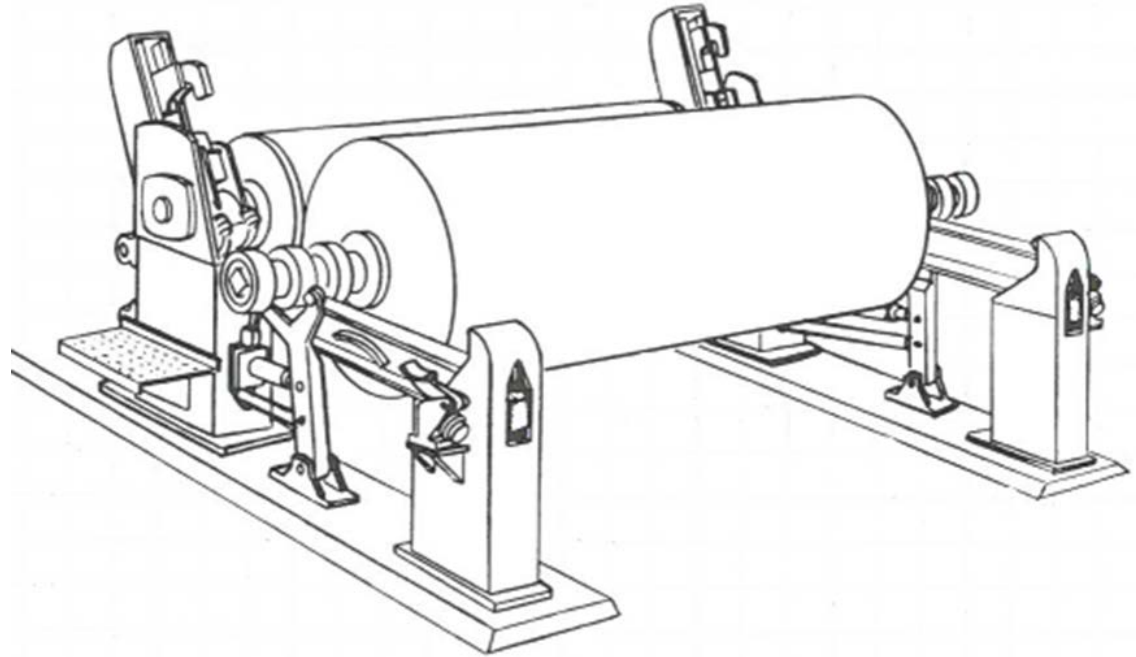
Overview

- Introduction
- Importance of reel alignment
 - Issues related to misalignment
- Alignment best practices
 - Drum
 - Rails
 - Primary arms
 - Secondary arms
 - Spools
- Benefits of reel alignment



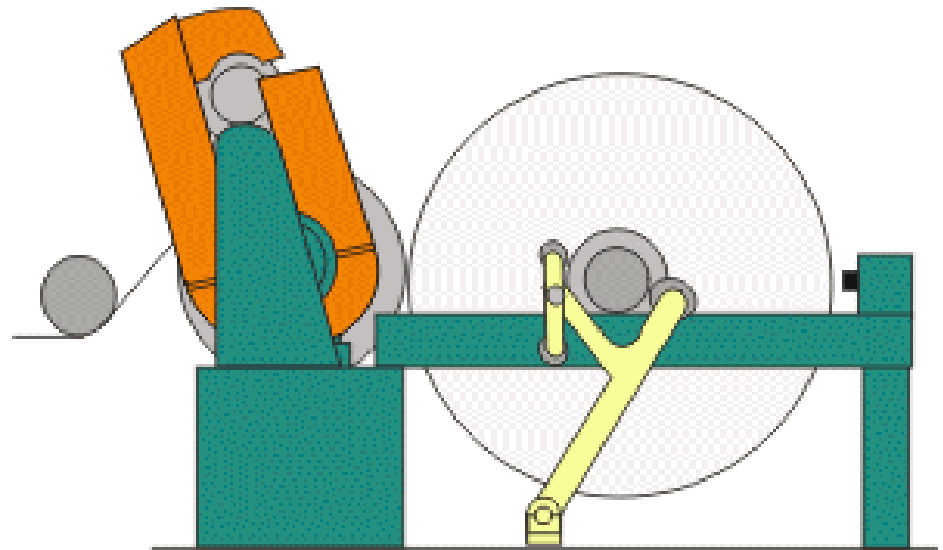
Importance of Reel Alignment

- Optimum operating efficiency
- Reduced unplanned downtime
- Improved production



Issues Related to Misalignment

- Sheet wrinkles & breaks
- Poor sheet transfer
- Improperly wound reel sets
- Reduced machine speed
- Increased hardware failures



Alignment Best Practices

- Alignment audits during routine maintenance outages
- Audits determine alignment condition of:
 - Reel drum
 - Reel primary arms throughout their length of travel
 - Reel rails

Misalignment issues can typically be corrected during routine outages!



Alignment Best Practices

- Reel Drum
 - Ideally aligned level to earth and square to machine centerline
- Alignment audit should include inspection of components leading into reel section:
 - Lead-out dryers of preceding section
 - Calender components
 - Paper carrying rolls
 - Spreader rolls



Alignment Best Practices

- Reel Rails
 - Flat
 - Sloped
 - Flat/Sloped



When possible, manufacturer print specifications should be referred to during reel rail alignment

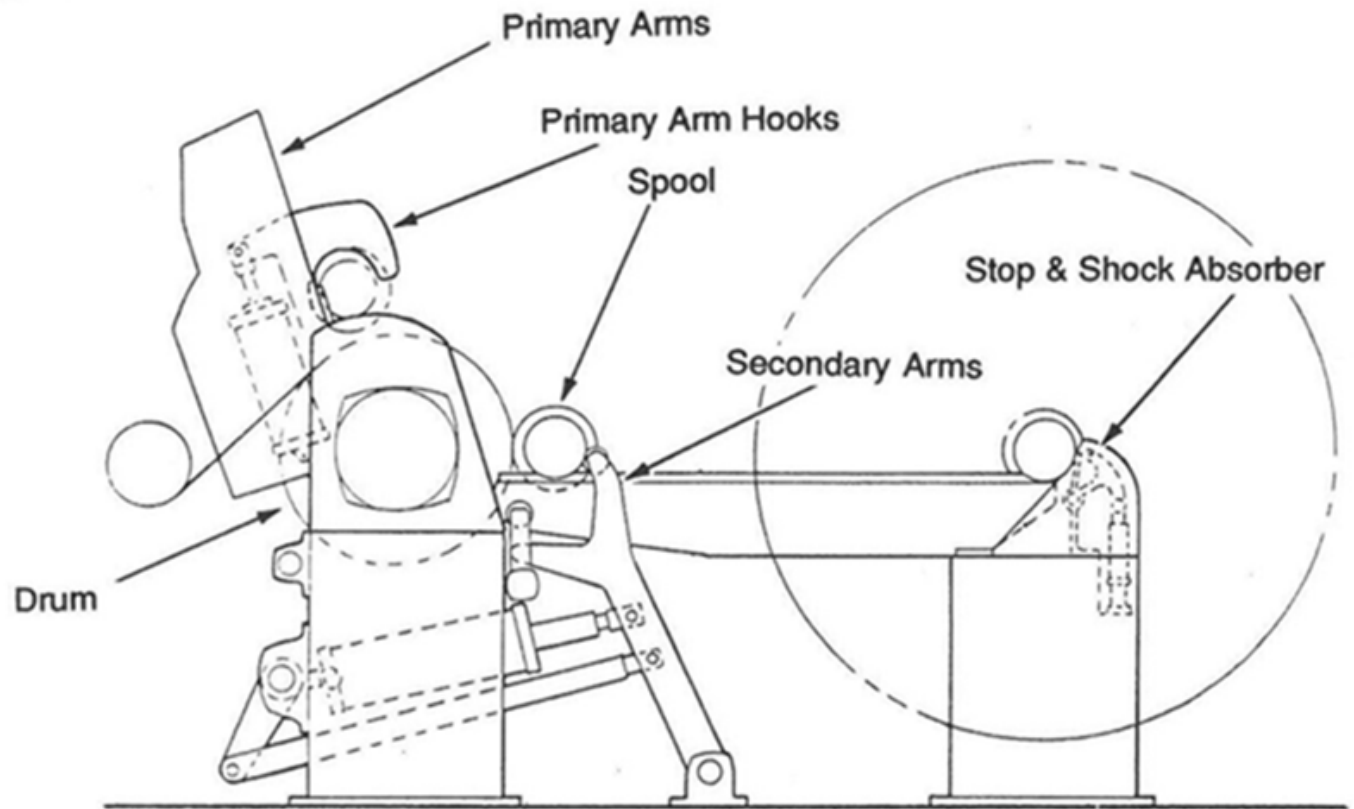
Alignment Best Practices

- Primary Arms
 - Spool should remain parallel to reel drum throughout downward cycle
 - Check in two positions:
 - Turn-up position
 - Lowered to just above rails

- Visually/mechanically inspect gears and bushings:
 - Dust
 - Teeth
 - Root clearance
 - Backlash
 - Wear

Alignment Best Practices

- Secondary Arms
 - Pivot pins aligned to print specifications
 - Align level and square to ± 0.005 "



Alignment Best Practices

- Spools
 - Wear and damage over time can lead to problems in reel operations
 - Mill personnel should monitor regularly to look for:
 - Spool cover wear
 - Bearing wear
 - Bent journals



Benefits of Reel Alignment

- Improved overall operating efficiency
- Reduced sheet wrinkles and breaks
- Properly wound reel sets
- Improved production levels
- Less hardware damage
- Increased uptime





Questions?

Thank you for attending!



www.oasisalignment.com

Booth 930

