

Overlooking Rockers and Rocker Plates Can Lead to Dryer Component Failures

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Overview

- Introduction
- Dryer Bearing Housing & Rocker Assemblies
 - Importance of Rockers & Hardware
 - Causes of Damage and Wear
 - Problems that Can Occur
 - How to Avoid Issues
- Customer Example

Importance of Dryer Bearing Housing & Rocker Assemblies

- Contain, support & protect tending side dryer can bearings
- Hold dryer cans in aligned position
- Allow cross-machine thermal expansion

Causes of Damage & Wear

TIME & NEGLECT!

- Rocker, Upper 'V' Gib Plate & Lower Plate wear caused by
 - Hardware not replaced when needed, leading to excessive wear in all components
 - Dryer section speed
 - Extreme ambient conditions
 - Excessive can weight due to trapped condensation

Causes of Damage & Wear

TIME & NEGLECT!

- Missing rockers
 - Rockers misplaced after bearing repairs
 - Extremely high felt PLI (pressure per lineal inch)
 - Lower dryers can lift
 - Rockers fall over
 - Rockers fall out of place if cover/inspection plates are removed and not reinstalled



**Rockers not properly positioned*

Problems that Can Occur

- Dryer can misalignment
- Dryer cans unable to operate to design specifications
- Bearing housing damage
- Wear between bearing housing and roll journal
- Dryer steam syphon failure
- Bearing failure
- Journal failure

Problems that Can Occur

Do not run with worn or damaged rockers!



Images show same rocker with worn top right and bottom left. Machine was running with rocker in wrong position. Over time, this will cause much more extensive problems than rocker wear!

How to Avoid Issues

Regular visual inspections!

- Remove inspection plates (if they exist), inspect for:
 - Missing rockers
 - Rocker position
 - Rocker wear
 - Broken worn or damaged plates
 - Damaged bearing housings



**Rocker in proper position*

Customer Example

Large Paper Mill

- Installed new steam joints
- Began having failures in new steam joints
- Contacted steam joint OEM believing parts defective
- OEM refused to warranty parts until mill confirmed correct alignment of:
 - Dryer cans
 - Bearing housings
 - Rocker plate assemblies

OASIS performed inspection and alignment adjustment. Once components were precision aligned, the life of steam joints increased significantly!

Questions?

Thank you for attending!



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