

## Correction of Frequent Maintenance Construction Assembly Error

### See anything immediately wrong in the picture below?

This is a 5 plus inch Shaft and Pillow-block bearing on a Criticality 1 - Boiler I.D. Fan. If it doesn't run, the plant doesn't run! It Failed Frequently Until We Suggested a Simple Correction!



This bearing had an average life of 6 months to a year between random failures for many years. The plant had just "learned to live with it" Sometimes Vibe guys would catch it and schedule replacement, sometimes just sudden failure and downtime occasionally requiring expensive shaft replacement and 2 days downtime. The Bearing always ran hotter than expected 210-230F and the maintenance guys always pumped in More Grease #\$\$%!

**HINT ?** - I must admit, although I have preached and preached, I have failed miserably to get mechanics, engineers, and M&E mgrs. to understand, CAST IRON Housings Are Flexible, especially when submitted to multi-hundred, multi thousand-pound loads like fan rotors. See anything flexing?

**ROOT CAUSE?:** The Bearing Pillow-block Housing is flexible enough under load it is "Pinching" the outer ring of the internal spherical roller bearing because the housing is incorrectly shimmed on the bottom between the housing and the base. Look at those shims only supporting the 2 ends of the blue pillow-block housing.

What is happening in the center where there is no full face shim? As the Housing flexes, only 2 or 3 or 4 thousandths of an inch perhaps, pushing down on the outer ring of the roller bearing, it immediately takes the shape of the housing pushing around it under the load. In this case the Ring responds in the only direction it can, pushing down on the "few" thousandths of original clearance, causing reduced bearing internal roller to rings **clearance** and thus accelerated friction, heat, lubricant breakdown and accelerated wear. You get the idea. VERY BAD! VERY BAD! Why is that occurring...[continue reading](#)

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***\*\*No prerequisites required, we have designed our curriculum to take trainings in any order!***

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## Employee SPOTLIGHT



### JASON ASHMORE

#### **Instructor / Reliability Specialist**

Hendrix welcomes Jason Ashmore to our team of experts. With 16-years of dedicated service at one of the largest paper mills in the US, Jason has cultivated a rich and diverse career in industrial maintenance. Over the last two years, he assumed the pivotal role of Maintenance Trainer in one of the largest paper mills in the US, in the US, sharing his expertise in industrial maintenance and guiding the next generation of maintenance professionals. Jason's 16-year journey at the mill included 4-years working day maintenance, tackling challenges head-on to maintain peak operational efficiency throughout the day and an additional 8-years as a Shift Maintenance specialist, where he honed his skills in ensuring the smooth operation of machinery and equipment vital to production. He also held the role of Fire Marshal for 2-years, where he took on the responsibility of safeguarding the workplace, emphasizing safety protocols and emergency preparedness.

Prior to the paper mill, Jason accumulated extensive experience working with various contractors as a Supervisor and Project Manager in numerous chemical plants and paper mills. In addition, he also served as a project manager at a fabricating & welding company and oversaw all facets of building coded pressure vessels and managed complex projects from inception to completion.

Throughout Jason's career he has remained committed to excellence, consistently delivering exceptional results and fostering a culture of precision maintenance with a focus on efficiency and safety. In his spare time, you're likely to find Jason out doing what he loves, fishing and hunting or spending time with his beloved grandchildren.

**Meet our Hendrix  
Instructors**

## HENDRIX - Upcoming Events

### **SAVE THE DATE!**

Hendrix is excited to once again be a sponsor at the annual **SMRP conference**, showcasing our commitment to creating reliable solutions through precision maintenance practices.

We are eagerly anticipating the opportunity to connect with our valued customers and engage with industry partners. This event presents a valuable platform to demonstrate our commitment to excellence and ultimately driving progress and success in the field of reliability. More info and news to come as we get closer!



**We're  
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