

# ROTATING KILN DRYER

MACHINE HEALTH SOLUTION FOR FRAC SAND MINING



## THE PROBLEM:

Drying kilns are critical to the frac sand mining production process. Incoming sand is mixed with water at the beginning of the process, but the final product must be completely dry before it is ready to be shipped to customers. Large rotating dryers are a common solution for this step, and the trunnion bearings that keep them moving are working constantly.



## ASSET BLIND SPOTS:



**Process demands constant run time**



**By the time bearing temperatures indicate a problem it is often too late, and the bearing can fail within hours.**



**Trunnion bearings are located high off the ground and in noisy environments. Developing issues are often impossible to be seen or heard.**

### COST OF BEARING FAILURE

**Lost Production:  
\$4,600/hour**

**New Part Lead Time:  
2-4 Weeks**

**Safety Issue:  
Failing bearings can  
catch fire**

### A NEW LOOK AT BEARING HEALTH



Wireless vibration sensors are easy to install - 1 per trunnion bearing



Software provides access to data, dashboarding, & alarming



Real-time data provides health insight without stopping production



Sentry Analysts work with your team to understand vibration