

Case Study - Bearings :

Helping Leading Bearing Manufacturer

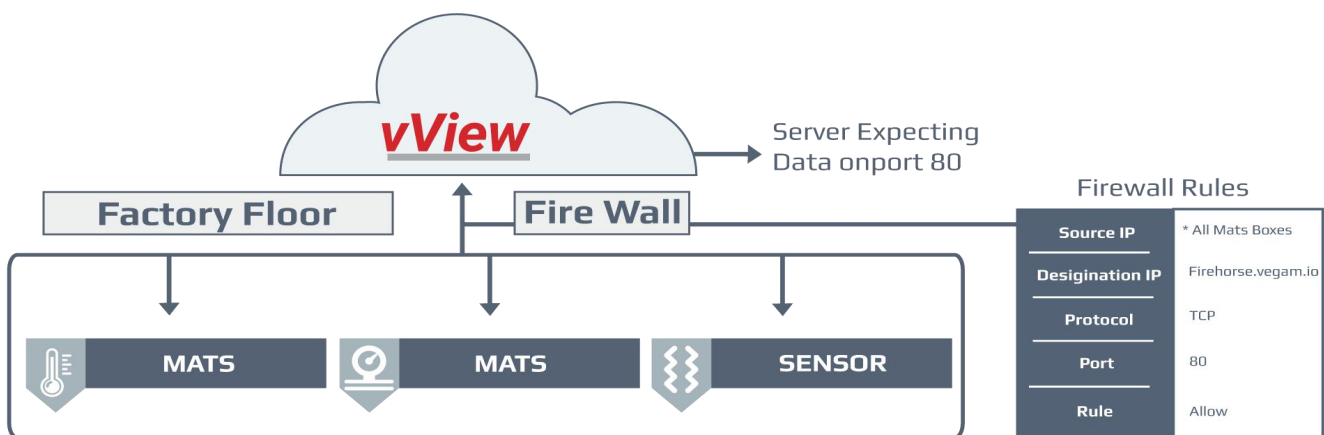
Overview :

Leading bearing manufacturers has a critical machine, where grinding of bearing take place. The vibration level of the machine has an impact on the final quality of the bearing. There was a need to measure the vibration in real time and alert shop floor personnel in case of breach of threshold in vibration

The problem:

The floor manager was experiencing oddities and eccentricities in the bearings in some production batches. The anomalies in the bearings could be traced back to the machine motor vibrations.

Our solution :

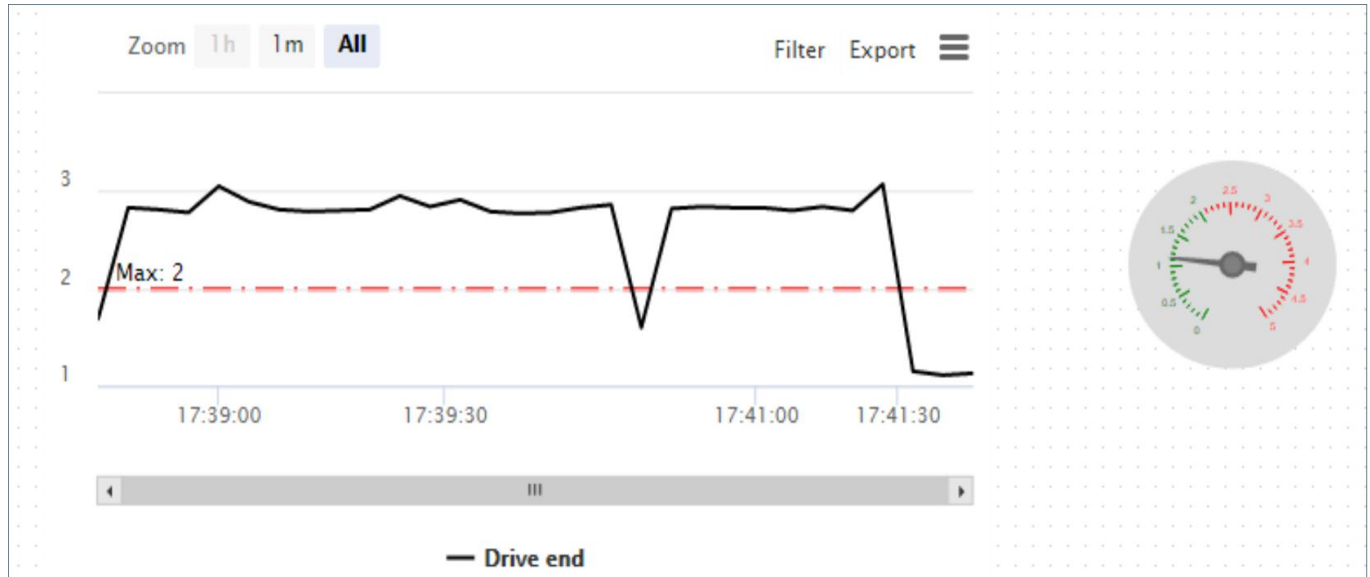


Install sensors on the motors to monitor the vibration of the motors real-time and alert the floor manager if the vibration hits a particular threshold.

Continuously monitor the functioning of the IR Land and Race grinding machine.

Alerts major surprises and failures before the machine breaks-down due to excess vibration.

Data aggregation :



Data is analyzed in real time and is presented in the form of line graph with the threshold limit set at 2 mm.

Data can be filtered according to minutes, hours, days, months and years.

An alert in the form of an alarm is triggered once the vibration crosses 2 mm.

Benefits and Operational Impact :

- Real time monitoring of machines
- Decreased downtime due to early detection of possible machine failure
- Alert systems with scope for predictive maintenance
- Data aggregation to study patterns and calculate OEE