INFINITE UPTIME

A world-leading steel company avoided unplanned downtime in their cold rolling mill application with predictive monitoring and advanced analytics.

About the Company

- Annual production capability of 10 MTPA.
- 20-million-tonne pellet-making capability.
- Global presence in steel and ancillary industries.

Application-
Cold rolling is an industrial process used to change the material properties of sheets or strips of metal to smoother surface, greater dimensional accuracy and increased hardness.

Challenges-
- Frequent gearbox failures often resulted in unplanned downtime in the CRM application
- Lack of insights into machine health
- Maintenance activities were reactive in nature
- Keeping up with equipment availability

Solution-
The plant maintenance teams added real-time monitoring capabilities to their CRM applications. Issues like misalignment and tear-wear in the gearboxes were observed and diagnosed by the reliability engineers. To avoid further damage new gearboxes were installed at 3 CRM applications during scheduled maintenance. This resulted in seamless functioning of the machine and avoiding potential downtime.

Total 27 exposure points were monitored at 3 main CRM applications.

Business Impact

72+ Hours
of total unexpected downtime saved in 6 months