

MANUFACTURING LEADERSHIP AWARD WINNING CASE STUDY

Predictive Maintenance for CNC Machines in Automotive Manufacturing



The deployment of PDX, Predictronics' software solution for predictive maintenance, at Hino Motors helped to predict a CNC machine failure before it occurred, preventing unplanned downtime and unnecessary repairs. This improved maintenance scheduling, enhanced productivity, and increased spare part inventories, resulting in overall cost savings.

About This Case

- Predictronics worked with Hino Motors to identify two CNC machines and one welding machine that could benefit the most from predictive maintenance. Four specific components were monitored: the spindle, ball screw, clamp, and conveyor motor.
- Predictronics configured and deployed the solution—based on an existing analytics template—to monitor the health of the CNC machines.
- The solution proved its value after just one month of deployment and, based on the downtime history over the course of a year, this automotive supply manufacturer will realize ROI in less than two years.

Impact & Return on Investment CNC PREDICTIVE MAINTENANCE



Labor
ASSIGNMENT
OPTIMIZATION



2 Yrs
ROI IN LESS
THAN 2 YEARS



20%
DOWNTIME
REDUCTION

The deployment of Predictronics' PDX platform for Hino Motors won the 2022 Manufacturing Leadership Award for Artificial Intelligence and Machine Learning.

“After meeting and interacting with all the various vendors at the National Association of Manufacturers event, I realized I already had all I need in our partnership with Predictronics.”

-PETER DOWLING, Sr. Project Engineer, Hino Motors



Predictronics delivers Industrial AI and predictive analytics software solutions and services which provide actionable data-driven intelligence to drive real-world impact in industrial applications.

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